

# Manual



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# Disclaimer

Please note that some modules and functions described in this manual might not be available in your client instance. This is the case if certain modules or functions are not required, applicable or requested and have been excluded on client's explicit instruction.

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# Diagnostic Report Module

# About DRM

# Summary DRM

This manual describes the Diagnostic Report Module which is a part of the Genetic Information Management Suite provided by bio.logis Genetic Information Management GmbH. The Diagnostic Report Module (DRM) has been developed as a tool for diagnostic laboratories. It supports the process of producing diagnostic reports resulting from genetic analyses by providing a platform for managing medical content and by automating certain work steps.

The DRM contains a fully functional Content Management System (GIMS-CMS) which is used for the creation and management of diagnostic report content. It also allows the definition of rules to determine which content applies under which circumstances.

The DRM also contains a Genetic Report Engine (GIMS-GRE). When clinical data resulting from a diagnostic test is imported into the DRM, the GIMS-GRE applies the appropriate rules to allocate the appropriate content from the GIMS-CMS into a diagnostic report.

The manual at hand will familiarize you with the use of the GIMS-CMS and how to set up and manage report content, users and workflows in order to allow an efficient report production.

# Version DRM

GIMS 1.12



# System requirements DRM

- Firefox 45 on Windows 7 or 10
- JavaScript enabled
- No Ad blocking

# Contact DRM

Please contact us if there are any questions or support is required.

bio.logis Genetic Information Management GmbH  
Olof-Palme-Straße 15  
60439 Frankfurt am Main  
Germany

E-Mail: [support@biologis.com](mailto:support@biologis.com) (for registered bio.logis DRM-Users only)

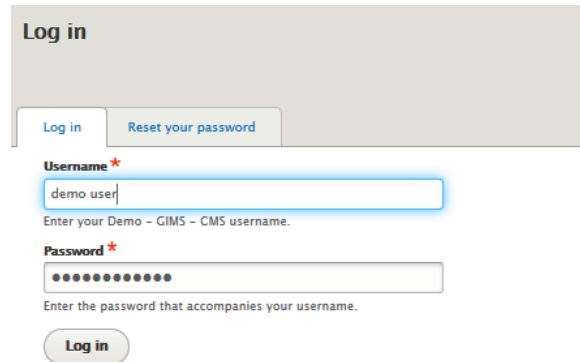
# User Manual DRM

# General

# Logging in/out

## Log in

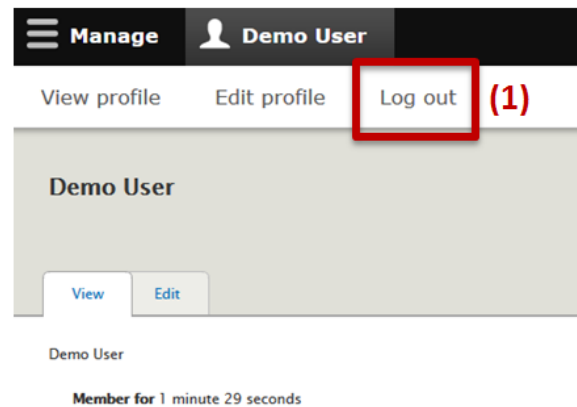
1. Enter the username
2. Enter the password
3. Click *Log in*



The screenshot shows a 'Log in' form with a light gray background. At the top left is the title 'Log in'. Below it are two buttons: 'Log in' and 'Reset your password'. The 'Log in' button is highlighted with a blue border. Below the buttons are two input fields. The first is labeled 'Username' with a red asterisk and contains the text 'demo user'. Below it is a hint: 'Enter your Demo - GIMS - CMS username.' The second is labeled 'Password' with a red asterisk and contains ten dots. Below it is a hint: 'Enter the password that accompanies your username.' At the bottom is a 'Log in' button.

## Log out

In the [toolbar](#), click *Log out* (1).

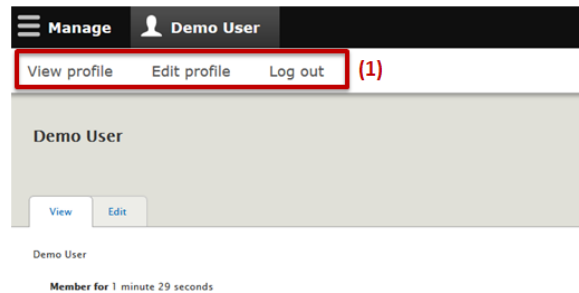


# Using the toolbar

Depending on the selected menu item the **toolbar** shows different options.

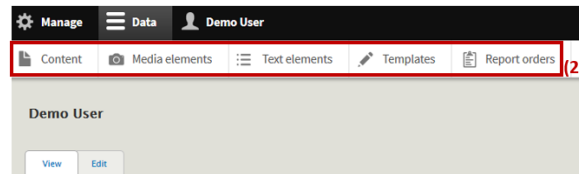
If the **user's** name is selected, the toolbar shows user related menu options (1):

- [View profile](#)
- [Edit profile](#)
- [Log out](#)



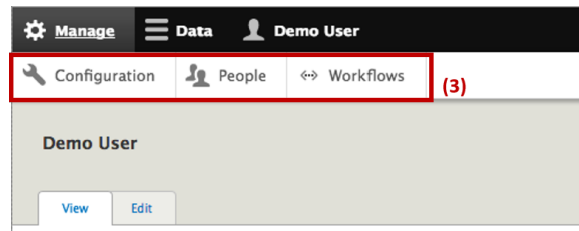
If **Data** is selected, the toolbar shows content related menu options (2):

- [Content](#)
- [Media elements](#)
- [Text elements](#)
- [Templates](#)
- [Report orders](#)

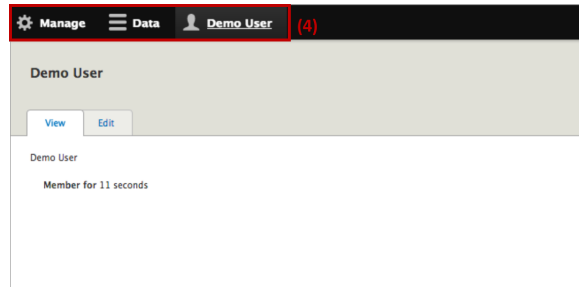


If **Manage** is selected, the toolbar shows administrative menu options (3)

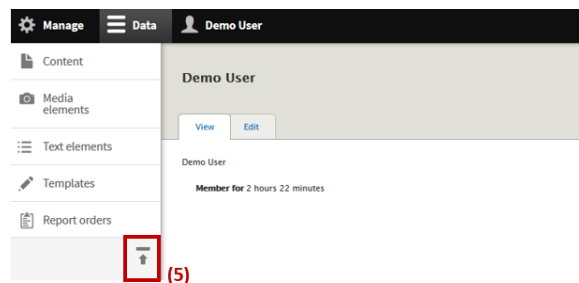
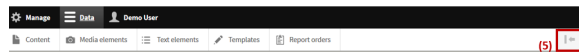
- [Configuration](#)
- [People](#)
- [Workflows](#)



The **toolbar** can be hidden by clicking the currently selected menu item (4).



The **toolbar** can be moved between vertically and horizontally by clicking its toggle button (5).





# Using the test drive environment

## How to get here

### Default way:

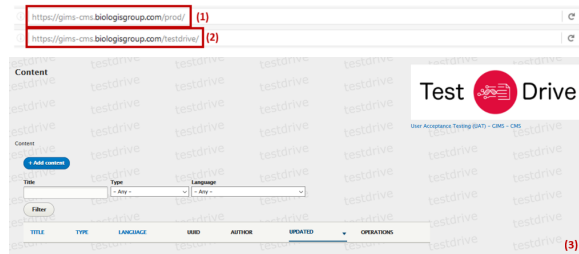
Change from the productive environment to the [test drive](#) environment by replacing 'prod' with 'testdrive' in the URL

**Role**  
all

To change from the productive environment to the test drive environment

- Replace 'prod' with 'testdrive' in the URL (1)
- Use the same login data as for the productive environment (2)

Please note: the test drive environment is a clone of the productive DRM environment which allows testing the user interface and new features. It reflects the content of the productive DRM environment. For a facilitated distinction the background of the test drive environment is colored gray and *Test Drive* is displayed with the DRM logo (3). Changes made in the test drive environment are not imported to the productive DRM environment. The test drive environment can be reset to the current status of the productive environment by the administrator.



## Possible next steps

- [Adding new content](#)
- [Editing content](#)
- [Translating contents](#)
- [Integrating content](#)
- [Generating a parameter tree](#)
- [Adding content elements](#)
- [Removing content elements from content](#)
- [Editing a content element](#)
- [Generating a parameter tree](#)



# Users

## How to get here

### Default way:

[Toolbar](#) > username

### Other ways:

- [Toolbar](#) > Manage > People *(needs Role User Administrator)*
- [Toolbar](#) > Data > [Content](#) > Author: own username
- [Toolbar](#) > Data > [Text elements](#) > First Author or Author > own username

## Role

all

Users log into the DRM via their personal account. The user account can be assigned different roles. These roles enable the user to perform various actions in the DRM.

Initially, users can be created by the administrator in the DRM. Later, users with the role 'User Administrator' are able to create new user accounts, too.

Per default, bio.logis Genetic Information Management GmbH has 2 user accounts in each customer instance for handling support requests: gim-admin and gim-support. If this is undesirable, the customer can deactivate it.

## Possible next steps

- [Editing user profile](#)

# Viewing user profile

## How to get here

### Default way:

[Toolbar](#) > username > *View profile*

### Other ways:

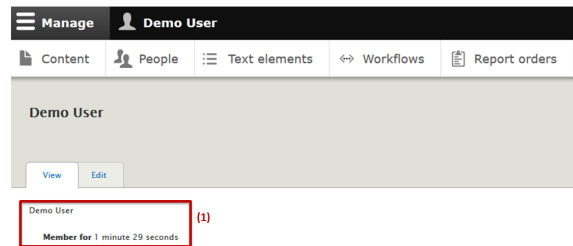
- [Toolbar](#) > Manage > People > own username (needs Role User Administrator)
- [Toolbar](#) > username > Edit profile > View
- [Toolbar](#) > Data > [Content](#) > Author: own username
- [Toolbar](#) > Data > [Text elements](#) > First Author or Author > own username

## Role

all

Information about the user profile is shown (1):

- Username
- Time since account creation



## Possible next steps

- [Editing user profile](#)
- [Editing password](#)

# Editing password

## How to get here

### Default way:

[Toolbar](#) > username > Edit

### Other ways:

- [Toolbar](#) > Manage > People > Operations: *Edit* (needs Role User Administrator)
- [Toolbar](#) > username > View profile > Edit

## Role

all

1. Enter the current password into *Current password* (1)
2. Enter the new password into *Password*
3. The password strength shows the quality of the new password (2)
4. Repeat the new password into *Confirm password* (3)
5. Click *Save*

? Unknown Attachment

## Possible next steps

- [Editing user profile](#)
- [Viewing user profile](#)

# Editing user profile

## How to get here

### Default way:

[Toolbar](#) > username > Edit profile

### Other ways:

- [Toolbar](#) > Manage > People > Operations: *Edit* (needs Role User Administrator)
- [Toolbar](#) > username > View profile > *Edit*

**Role**  
all

## Modify the following settings

- E-mail address
- [Password](#)
- Status
- Language settings
- Local settings

Click *Save*.

Please note:

For the changes of roles, please contact the User Administrator.

The screenshot shows the 'demo\_user' profile editing page. The left sidebar contains links: 'View profile', 'Edit profile' (active), and 'Log out'. The main content area is titled 'demo\_user' and has 'View' and 'Edit' tabs. Below the tabs, the user's current password is shown with a field to change it. A note states: 'Required if you want to change the Email address or Password below. Reset your password.' The 'Email address' field is populated with 'demo\_user@eologic.com'. A note below states: 'A valid email address. All emails from the system will be sent to this address. The email address is not made public and will or receive a new password or wish to receive certain news or notifications by email.' The 'Password' field is empty. Below it, 'Password strength' is shown. The 'Confirm password' field is empty. A note states: 'Passwords match: To change the current user password, enter the new password in both fields.' The 'Assigned roles' section lists various roles with checkboxes: Content Approver, Content Editor, Content Publisher, Content Reviewer, Content Settings Editor, Content Viewer, Custom Style Editor, Order processors editor, Order processors viewer, Parameter Editor, Section Configurator, Template Editor, Template Viewer, User Administrator, Workflow Editor, Report Order Viewer, and Template Approver. The 'LANGUAGE SETTINGS' section shows 'Site language' set to 'English'. The 'LOCAL SETTINGS' section shows 'Time zone' set to 'Europe/Berlin'. A 'Save' button is at the bottom.

## Possible next steps

- [Editing password](#)
- [Viewing the own profile](#)

# Contents

## How to get here

### Default way:

[Toolbar](#) > [Data](#) > [Content](#)

## Role

Content Editor

Single contents in the form of text, images or barcodes can be managed in the DRM. In addition, they can be merged into meaningful [contents](#) for various questions e.g. report templates. Different content types can be predefined by bio. logis, which can be configured individually e.g. with a desired number and denomination of [sections](#). For each content type an unlimited number of contents can be created.

Content types can be for example:

### *Clinical Report*

Predefined content type for creating reports on test results

### *Genetic Counseling Report*

Predefined content type for creating physician's letters

### *Gene Card*

Predefined content type for creating backup information on analyzed genes. A portal title can be assigned.

### *Page fragment*

Predefined content type for managing content of frequently used sections e.g. sidebar, header or footer in more than one clinical report (transmitted by [content integration](#))

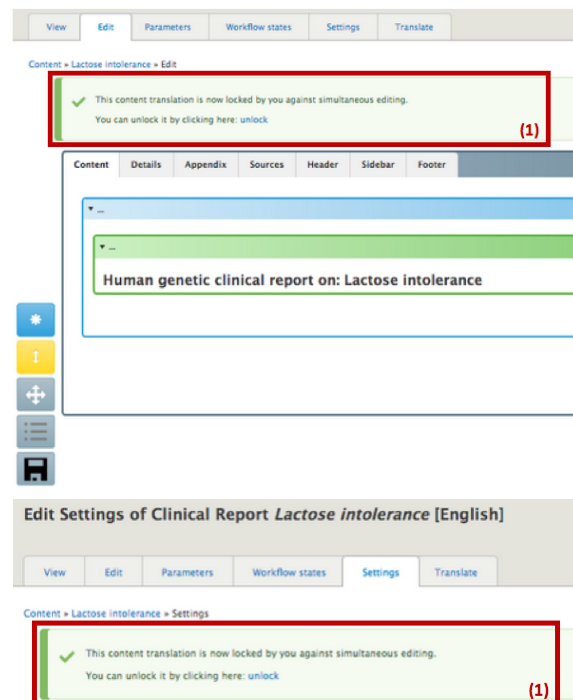
## Content locking

Content locking is a measure to avoid concurring editing of different users in the same content.

The content is locked for 30 minutes if a user opens a tab of the content where changes of the content can be made affecting the Edit, Parameter and Settings tab. On top of the content a notification to the locking status is set (1).

Another user who opens the content is informed at the same position by whom and for how long the content is already locked (2). After 30 minutes the content is released and automatically re-locked by the user who is editing it firstly. While the content is locked by another user, no one else can save changes but every tab with its content is visible.

In order to release the content for others earlier, click on the link [unlock](#) (3). A notification will confirm the unlock (4). Logout also unlocks contents locked by this user.



Please note:

- Modifications of content boxes and elements can be done while the content is locked by another user, but the changes cannot be saved.
- Parameters can be sorted differently while the content is locked by another user. Only new classes or parameter cannot be set.
- Other translations are not affected by the content locking.

Results parameters of Clinical Report *Lactose intolerance* [English]

View Edit **Parameters** Workflow states Settings Translate

Content » Lactose intolerance » Parameters

✓ This content translation is now locked by you against simultaneous editing.  
You can unlock it by clicking here: [unlock](#)

(1)

Add new parameter class -

Add new metadata field

Name

✚ All parameters

View Edit **Parameters** Workflow states Settings Translate

Content » Lactose intolerance » Edit

⚠ This content translation is locked by Demo User. This lock exists since 23 sec.

(2)

Content Details Appendix Sources Header Sidebar Footer

Human genetic clinical report on: Lactose intolerance

View Edit **Parameters** Workflow states Settings Translate

Content » Lactose intolerance » Edit

✓ This content translation is now locked by you against simultaneous editing.  
You can unlock it by clicking here: [unlock](#)

(3)

Clinical Report *Lactose intolerance* [English]

View Edit **Parameters** Workflow states Settings Translate

Content » Lactose intolerance

✓ Unlocked. Anyone can edit this content translation now.

(4)

Content Details Appendix Sources Header Sidebar Footer References

Human genetic clinical report on: Lactose intolerance

# Content overview

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#)

## Role

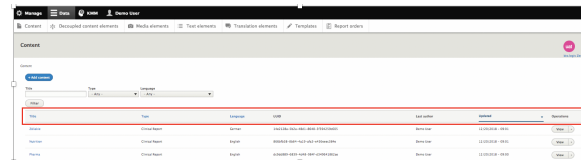
Content Viewer

The list can be filtered by [content type](#), title and language.

The list shows the following information for each [content](#) (1)

- title
- [type](#)
- translation language
- [uuid](#)
- last author: [last user](#) who edited the [content](#)
- updated: time point of last saving
- operations: possible actions, for example *view* or *edit*

The list can be sorted by clicking on the corresponding title (available for title, type, language, author and updated).



The screenshot shows the 'Content' view in the GIMS application. It features a search bar at the top and a table with the following columns: Title, Type, Language, UUID, Last author, Updated, and Operations. The table contains three rows of data, each representing a different content item.

Title	Type	Language	UUID	Last author	Updated	Operations
Content Item 1	Content Type	EN	XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX	John Doe	2023-10-26 10:30	View Edit
Content Item 2	Content Type	FR	XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX	John Doe	2023-10-26 10:30	View Edit
Content Item 3	Content Type	EN	XXXXXXXX-XXXX-XXXX-XXXX-XXXXXXXXXXXX	John Doe	2023-10-26 10:30	View Edit

## Possible next steps

- [Adding new content](#)
- [Viewing content](#)
- [Editing the content](#)
- [Viewing the parameters of the content](#)
- [Viewing the workflow states of the content](#)
- [Editing the settings of the content](#)
- [Translating the content](#)

# Adding new content

How to get here

Default way:

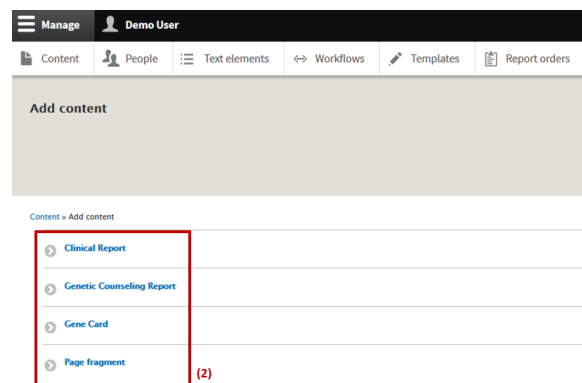
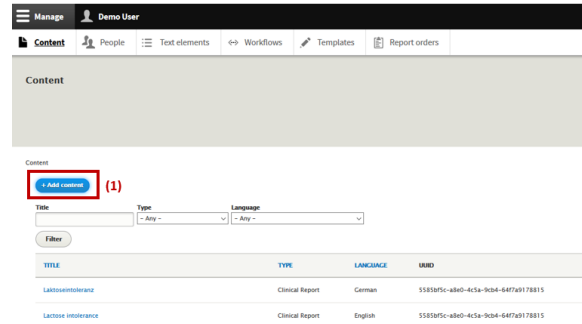
[Toolbar](#) > [Data](#) > [Content](#)

**Role**

Content Editor

Click on [+ Add content](#) (1). Select the [content type](#) (2).

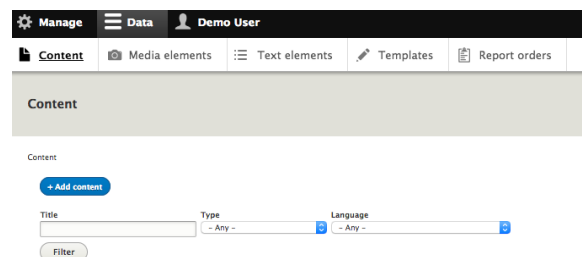
If only one content type is available, this one is used and the next page is shown directly. Content types can be created and deposited by the administrator.



Enter the title and select the language.

Click [Save](#).

The content is [shown](#) now.



## Possible next steps

- [Editing the content](#)
- [Viewing the parameters of the content](#)
- [Viewing the workflow states of the content](#)
- [Editing the settings of the content](#)
- [Translating the content](#)
- [Viewing the history of the content](#)
- [Publishing content](#)





# Viewing content

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > title or *View*

### Other ways:

- [Toolbar](#) > Data > Content > Operations: *Edit* > *View*
- [Toolbar](#) > Data > Content > Operations: [Parameters](#) > *View*
- [Toolbar](#) > Data > Content > Operations: [Workflow states](#) > *View*
- [Toolbar](#) > Data > Content > Operations: [Settings](#) > *View*
- [Toolbar](#) > Data > Content > Operations: [Translate](#) > *View*
- [Toolbar](#) > Data > [Report orders](#) > Requested Report (the given parameters will be selected)

## Role

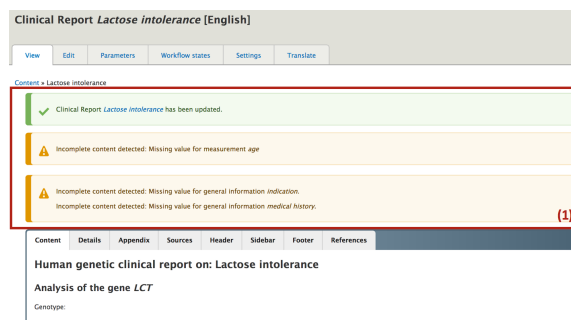
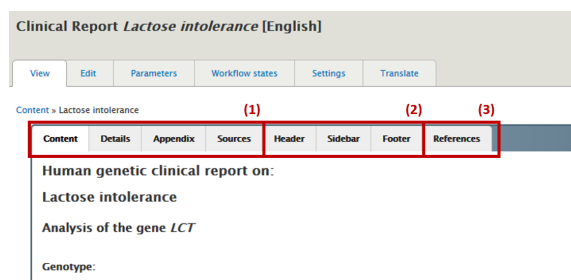
Content Viewer

On the *View* tab, the content is displayed in several sections. Amount and type of sections are customizable to optimally reflect the structure of content type ([Adding a section to content](#), [Removing sections from existing content](#)).

Sections can for example be used to:

- Structure the content of a clinical report (1)
- Structure the layout of a clinical report (2) (for further information see [Page fragments](#), [Content integration](#))
- List all citations, that are linked to [content boxes](#) (3)

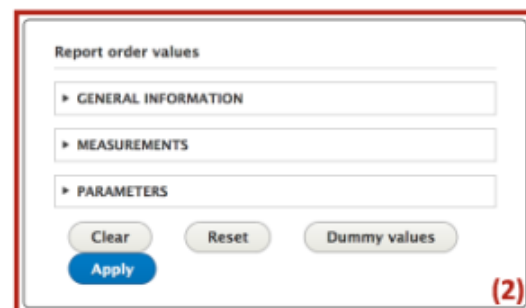
Depending on whether a content is incomplete or contradictory, [warnings](#) can be displayed (1). Eliminate the cause of the warning, otherwise a report can not be published under these conditions.



## Selecting of general information, measurements and/or parameters

Select [parameters](#), general information and/or measurements in the *Report order values* block and click *Apply* to see the content change accordingly (2).

- Click *Clear* to empty the selection of parameters and all fields of general information and measurements filled with random or fixed dummy values or manually entered values. Default values are retained after clicking the *Clear* button.



- Click *Reset* to go back to the last setting of general information and measurements
- Click *Dummy values* to fill in arbitrary values for parameters, general information and measurements
- Optional: For general information and measurements with multiple input elements, values for each index can be entered. Click *Index 1* to open the index field for entering the value 1 (3). Click '+' to open a new index field (3b) and '-' to delete it (3c).
- Optional: For parameter linked general information and measurements the associated parameter must be selected in addition to the value (4). Click into the *Linked parameter* field, a modal window opens for the parameter selection (4a). Click *Apply* and the desired parameters are displayed in the *Linked parameter* field (4b).

Please note:

- Computed general information and measurements are not displayed (see [Viewing computed content](#) (5)).
- Values of general information and measurements obtaining the attribute *Required* must be filled.

Report order values

Test

▼ GENERAL INFORMATION

▼ TEST

▶ INDEX 1 (3)

+

▶ MEASUREMENTS

▶ PARAMETERS

Clear Reset Dummy values

Apply

Report order values

Test

▼ GENERAL INFORMATION

▼ TEST

▼ INDEX 1

Value

1

▶ NON-DEFAULT DETAILS

- (3a)

▼ INDEX 2

Value

- (3c)

+

(3b)

▶ MEASUREMENTS

▶ PARAMETERS

Clear Reset Dummy values

Apply

## Report order values

**Lactose intolerance**

▼ GENERAL INFORMATION

▼ INDICATION

Value

Linked parameter

[Nothing selected] (4)

► NON-DEFAULT DETAILS

▼ GENERAL INFORMATION

▼ INDICATION

Value

stomach ache

Linked parameter

LCT(S57-c.-13910T>C:het) (4b)

► NON-DEFAULT DETAILS

Report order values

Lactose intolerance

▼ GENERAL INFORMATION

▼ INDICATION

Value

stomach ache

Linked parameter

[Nothing selected]

► NON-DEFAULT DETAILS

Cancel Reset Apply (4a)

Hovering over the content reveals the responsible [rule](#) and provides an *Edit* button to this specific [content box](#) in the [content form](#) (6).

Content Details Appendix Sources Header Sidebar Footer References

Human genetic clinical report on: Lactose intolerance

Analysis of the gene *LCT*

Genotype:

OR

AND

Always true (6)

Edit

Per default, [sections](#) are shown as tabs. In order to see all sections at once, select *show all* in the *Display sections* block in the right sidebar and click *Apply* (7).

Display sections

☒ show as tabs

☐ show all

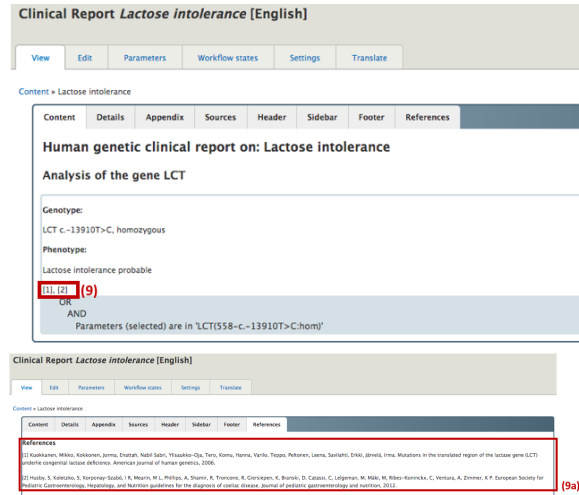
Apply (7)

The *Translation* block in the right sidebar shows the available translation languages and allows to switch between languages (8).



The index number of the [references](#) are shown below their [content box](#) (9).

The last [section](#) of the [content](#) is automatically generated and contains the [references](#) of all shown [content boxes](#) in their order of usage, assigned by number (9a).



### Possible next steps

- [Editing the content](#)
- [Viewing the parameters of the content](#)
- [Viewing the workflow states of the content](#)
- [Editing the settings of the content](#)
- [Translating the content](#)
- [Editing the content \(with the content box preselected\)](#)
- [Viewing the history of the content](#)
- [Publishing content](#)

# Viewing integrated content

## How to get here

### Default way:

**Toolbar** > Data > **Content** > title or *View*

### Other ways:

- **Toolbar** > Data > Content > Operations: *Edit* > *View*
- **Toolbar** > Data > Content > Operations: *Parameters* > *View*
- **Toolbar** > Data > Content > Operations: *Workflow states* > *View*
- **Toolbar** > Data > Content > Operations: *Settings* > *View*
- **Toolbar** > Data > Content > Operations: *Translate* > *View*
- **Toolbar** > Data > **Report orders** > Requested Report (the given parameters will be selected)

## Role

Content Viewer

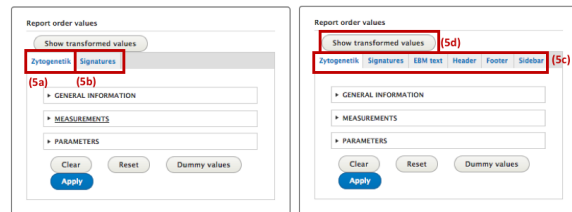
## View when using **content integration**:

The variables (**general information**, **measurements**, **parameters**) of the contents are organized in tabs named after the corresponding content. Initially only the variables of the current content can be selected. After the selection, tabs of integrated contents occur consecutively. This has to be done step by step since each integration can be influenced by the selection of variables of previous content.

- To fill the document with desired content boxes, enter values manually and click *Apply* or select *Dummy values* (5a)
- A new tab occurs named after the first content from which one or more sections have been integrated. Select the new tab and either enter values manually and click *Apply* or select *Dummy values*. (5b)
- Optional: select variables for all following integrated contents to complete the content values. (5c)

### Please note:

- By clearing variables of one content, all following integrated content variables are cleared too and their tabs are not longer displayed.
- By submitting values of one content by entering values manually and clicking *Apply* or selecting *Dummy values*, all following integrated content variables are cleared and just the tab of the current and the next content are shown. The other tabs are not longer displayed.
- In case a **report order** is displayed, all desired values are transmitted. All tabs will be shown.
- In case the same variables are assigned in more than one of the combined contents, values and preset attributes are taken over in downstream contents where they can not be changed. The entered values of these variables are saved even on the *View* tab of another content. Thus, values might be set already in an integrated content and the belonging variables are locked until clicking the clear button.
- A warning will occur if no variables were selected for a content. This warning does NOT prevent the report generation.





# Viewing computed content

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > title or *View*

### Other ways:

- [Toolbar](#) > Data > Content > Operations: *Edit* > *View*
- [Toolbar](#) > Data > Content > Operations: *Parameters* > *View*
- [Toolbar](#) > Data > Content > Operations: *Workflow states* > *View*
- [Toolbar](#) > Data > Content > Operations: *Settings* > *View*
- [Toolbar](#) > Data > Content > Operations: *Translate* > *View*
- [Toolbar](#) > Data > [Report orders](#) > Requested Report (the given parameters will be selected)

## Role

Content Viewer

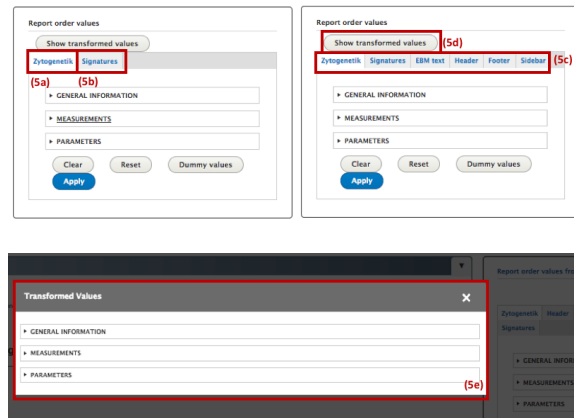
## View when using [processor chains](#):

If specific processor chains are used to output the content, [computed values](#) can be generated in addition to the simple values. All selected values are listed under the transformed values.

- Click the *Show transformed values* button (5d)
- A modal window with all variables including computed and further processed general information, measurements and/or parameters appears (5e)

Please note:

- This list is for viewing only. No value can be changed here.
- [Computed general information](#) and measurements are marked by a red star (5f).
- [Protected general information](#) are displayed without values (5g).





Transformed Values

▼ GENERAL INFORMATION

Contains computed general information.

▼ PATIENT FIRST NAME

ID

patient\_firstname

Laboratory specific general information external ID.

☐ Status

Status of the general information.

Description

Description of the general information.

Domain

Domain of the general information.

Name

Patient first name

Name of the general information.

Value

--- value encrypted --- (5f)

► PATIENT LAST NAME

► KARYOTYPE

(5g)

► KARYOTYPE OF CELL LINE 1 \*

► CHROMOSOMAL SEX OF CELL LINE 1 \*

# Editing content

## How to get here

### Default way:

**Toolbar** > Data > **Content** > Operations: *Edit*

### Other ways:

- **Toolbar** > Data > Content > Operations: *View* > Edit
- **Toolbar** > Data > Content > Operations: *Parameters* > Edit
- **Toolbar** > Data > Content > Operations: *Workflow states* > Edit
- **Toolbar** > Data > Content > Operations: *Settings* > Edit
- **Toolbar** > Data > Content > Operations: *Translate* > Edit
- **Toolbar** > Data > Content > title or *View: Edit* next to the rule of a **content box**

## Role

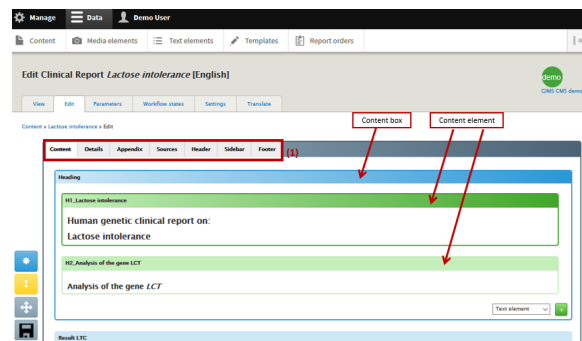
Content Editor

The **content** is divided into **sections**, represented by gray boxes. Click on the tabs to switch between them (1). Changes to each section will be preserved even when switching between the sections.

Within a section, **content boxes** display blue color. Content boxes include **content elements** which display green color.

Content boxes and content elements can be

- selected by clicking on them. Selected content boxes/elements are represented by darker colors.
- added by clicking the + buttons: **Adding a content box to content**
- opened and closed by clicking the yellow buttons.



In the right sidebar the attributes and options of the **content**, **content boxes** and **content elements** are shown. They can be closed by clicking on the triangle in front of their title.

For the **content** following features are deposited in the **Content attributes** box (marked gray)(2):

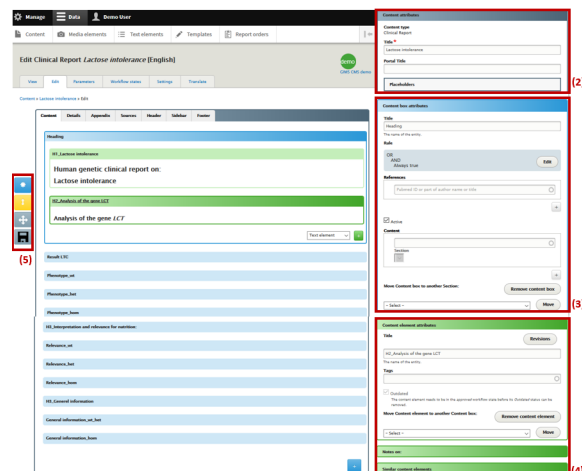
- Title
- Placeholders

For the **content boxes** following features are deposited in the **Content box attributes** box (marked blue)(3):

- Title
- **Exclusion set** (initially disabled)
- **Rule**
- **References**
- **Exclusion set** (initially disabled)
- **Active**
- **Content integration**
- **Move**

For the **content elements** following features are deposited in three different boxes (marked green)(4):

1. **Content elements attributes**
  - **Revisions**
  - Title



- [Tags](#)
- [Outdated](#)
- [Move](#)

## *2. Notes on*

## *3. Similar content elements*

The boxes in the right sidebar do only show the information for the currently selected content element or content box.

On the left buttons for further actions are deposited (5):

- Blue \* button: enabling the functionality for viewing and [setting exclusion sets](#)
- Yellow button: opening and closing all content boxes and content elements
- Gray button with drag symbol: enabling the functionality for [moving content boxes](#) and [moving content elements](#)

Gray button with floppy disk symbol: for [saving the changes](#)

### **Possible next steps**

- [Adding a content box to content](#)
- [Adding content elements](#)

# Types of saving

## How to get here

### Default way:

**Toolbar** > Data > **Content** > Operations: *Edit*

### Other ways:

- **Toolbar** > Data > Content > Operations: *View* > *Edit*
- **Toolbar** > Data > Content > Operations: *Parameters* > *Edit*
- **Toolbar** > Data > Content > Operations: *Workflow states* > *Edit*
- **Toolbar** > Data > Content > Operations: *Settings* > *Edit*
- **Toolbar** > Data > Content > Operations: *Translate* > *Edit*
- **Toolbar** > Data > Content > title or *View* > *Edit* next to the rule of a **content box**

## Role

Content Editor

## Saving changes

1. Click the button on the left with floppy disk symbol
2. A box opens, where the **change class** has to be selected (1).
3. Click *Save*

## Please note:

Depending on the change class the content for the underlying parameter combination can fall back into another **workflow state**. By default major changes will cause the workflow state to be reset by normally several steps while minor changes will reset the workflow state by fewer or no steps. Therefore, minor changes are recommended for simple changes such as the correction of spelling mistakes. The selection of major changes is recommended for integration of new content or bigger reorganization.

As soon as **content** is edited, a confirmation is required to leave or reload the *Edit* tab without saving. In the modal window (2) click:

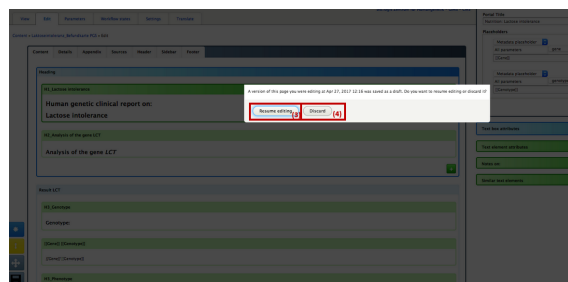
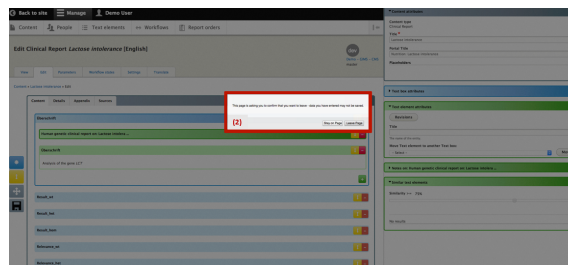
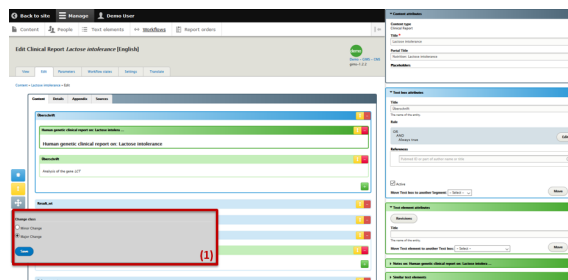
- *Stay on Page* to keep the changes
- *Leave Page* to discard all unsaved changes

## Autosaving of not yet saved changes

Autosave is a feature which stores changes of the content that are not yet saved by the editor. This feature prevents loss of data in case of a breakdown of the system or power outage.

When returning to a content containing autosave states, a modal window opens. Click:

- *Resume editing* to continue editing from the last autosaved state (3) or
- *Discard* to discard all autosaved states (4)



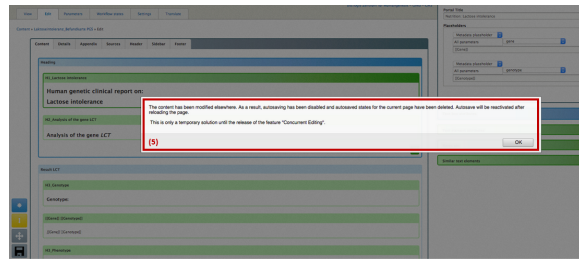
Please note:

- only own changes will be considered for autosaving
- the time of the last changes in the notice refers to the time zone preset for the user. For changing the time zone see [Editing user profile](#)

If the content is edited and saved by another user while you are editing it, you will be notified that autosave is being disabled and that all existing autosaved states are deleted. This is only a temporary measure and will be removed as soon as the feature "Concurrent Editing" is released (5).

#### Possible next steps

- [Adding a content box to content](#)
- [Adding content elements](#)



# Integrating content

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: *Edit*

### Other ways:

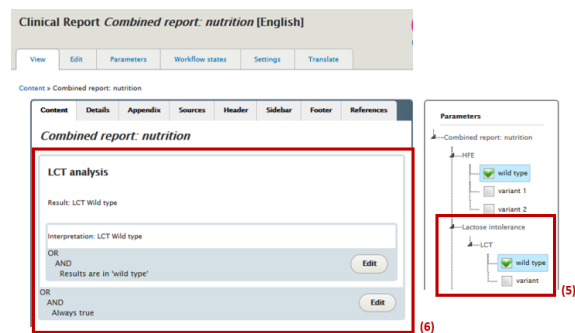
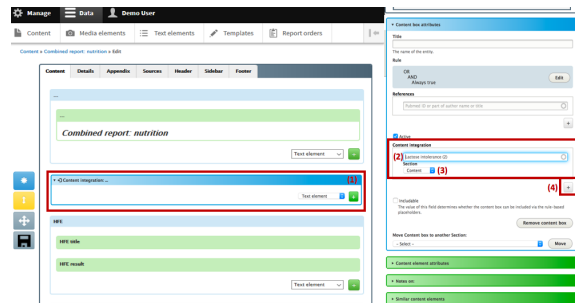
- [Toolbar](#) > Data > Content > Operations: *View* > Edit
- [Toolbar](#) > Data > Content > Operations: *Parameters* > Edit
- [Toolbar](#) > Data > Content > Operations: *Workflow states* > Edit
- [Toolbar](#) > Data > Content > Operations: *Settings* > Edit
- [Toolbar](#) > Data > Content > Operations: *Translate* > Edit

## Role

Content Editor

Sections of basic contents can be included by adding them into a [content box](#). This process is called [content integration](#).

1. Select the content box where the basic content shall be embedded (1).
2. Use the autocomplete field within the *Content box attributes*, start to type the title of the [content](#) to be included and select the desired basic content from the list (2).
3. Select the desired [section](#) of the basic content (3).
4. Optional: Click + to add a new item for integrating further content (4).
5. Save.
6. On the content view, a combined parameter tree is displayed: the parameter tree of the basic content is included in the already existing parameter tree (5).
7. Hovering over the text shows the interlaced content boxes (6).



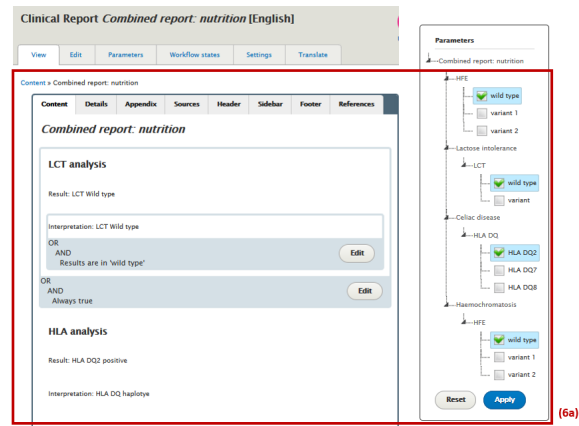
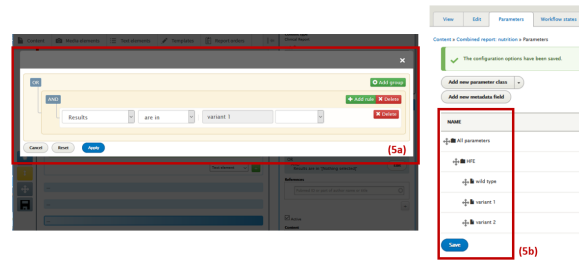
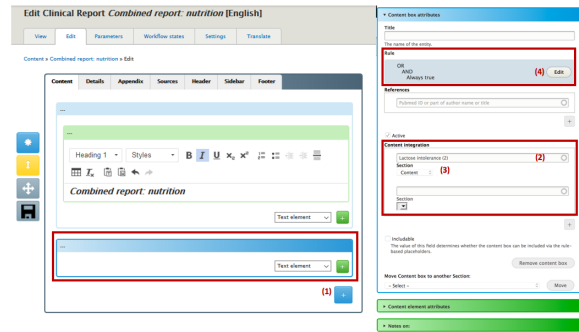
## Please note:

- The structure of combined contents is variable since individual sections of different contents can be integrated in the desired order.
- Parameter / general information / measurement placeholders can be transferred from another content.
- Included parameters / general information / measurements are not shown in the rules and placeholder list.
- If content should only be integrated under certain [parameter](#) conditions 2 strategies can be followed:
  - Generate a separate section in the basic content, including only the information about the parameter combination for which content is to be integrated.
  - Enter this section into the combined content (no second parameter tree is needed).
- See [Viewing content](#) for the presentation of integrated content.
- Integrated content must be published before it is used in document generation. If content to be integrated is in another status than *published*, the most recently published version is delivered.
- Content can not be integrated circularly. For example content A is included in content B, content B cannot be included in content A at the same time.

Example:

A combined clinical report *Nutrition* is generated by using the single gene reports *Lactose intolerance*, *Celiac disease* and *Haemochromatosis*. While all results of the LCT and HLA DQ analysis should be reported, the results of the HFE investigation should only be mentioned if variant 1 was detected.

1. Add a new content with content type *Clinical report* and the title *Combined report: nutrition*.
2. Fill in the parameters and all content that is individual and cannot be integrated by other contents.
3. Create a content box at the position where the first section of the clinical report *Lactose intolerance* shall be integrated (1), select the content (2) and the desired section (3). Set the rule to *Always true* (4).
4. Optional: Click + to add a new item for integrating further sections of the same content.
5. Repeat step 2-4 for the linkage of the sections of the clinical report *Celiac disease*.
6. Repeat step 2 for the linkage of the sections of the clinical report *Haemochromatosis*. Define the rule *Results are in Variant 1* (5a) for the content box consisting the sections of Haemochromatosis. Therefore, the existing parameter tree needs to offer this option. Otherwise include the desired parameter combination (5b).
7. Save.
8. On the content view, different parameter combinations show the corresponding content elements in the order and depending on the given rules prescribed on the Edit tab (6).



### Possible next steps

- [Viewing content](#)
- [Adding content elements](#)
- [Editing a content element](#)
- [Moving a content box](#)
- [Setting an exclusion set to a content box](#)
- [Setting references to a content box](#)
- [Adding a content box to content](#)





# Generating a report preview

**Usable only in combination with Report Layout Engine**

## How to get here

### Default way:

Toolbar > Data > Content > title or View

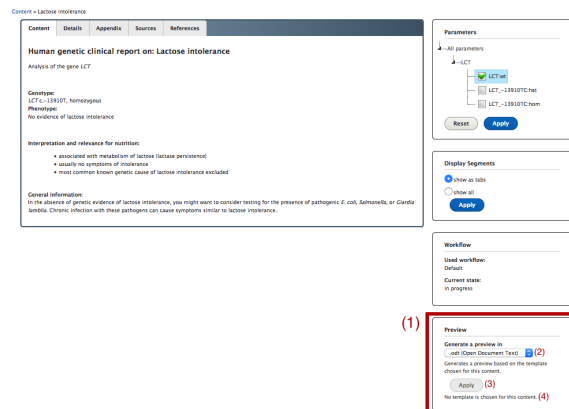
## Role

Content Viewer

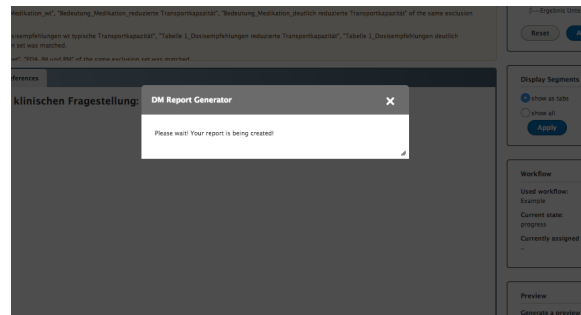
On the view tab it is possible to generate a *Preview* of the [content](#) in the current state (1). In order to do this a template needs to be [selected](#) for this content. The preview is created based on the selected [template](#).

Select a file format (2) to create the preview with and click *Apply* (3).

In case no [template](#) has been selected for this [content](#), the *Apply* button (3) is set inactive and a message informs the user (4).

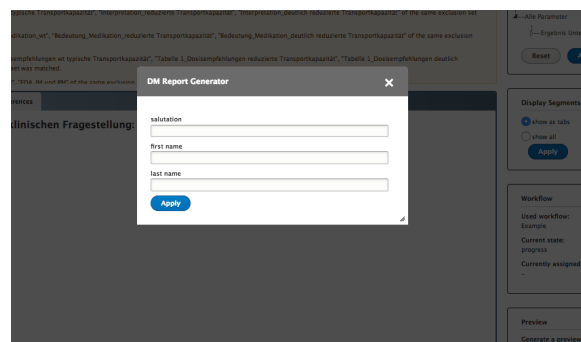


If module "DM Report Generator User Interface" is activated, the modal window appears with the message *Please wait! Your report is being created.*



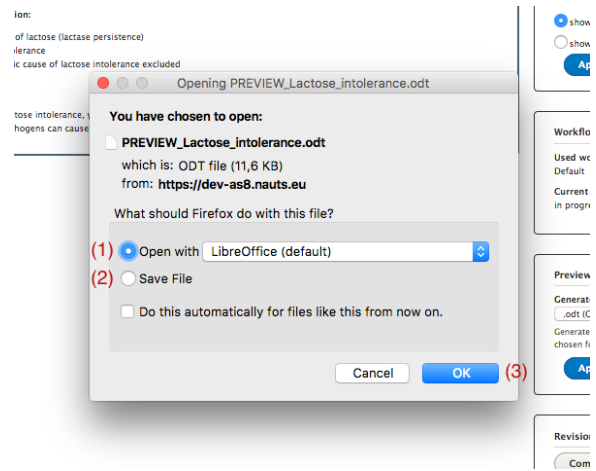
If any [flexible placeholder](#) is defined, an additional form is displayed with the input request for the defined placeholders.

The user can fill the fields for the placeholders manually and click *Apply*. Fields can be left empty, whereby the corresponding placeholder is deleted in the generated document.



Depending on the configuration of the browser

- the preview can be saved in the *Download* folder
- a new modal window opens with the possibility to either open (1) or save (2) the report preview. Click *OK* (3) to confirm the selection.



### Possible next steps

- Editing the content
- Viewing the parameters of the content
- Viewing the workflow states of the content
- Setting the used template
- Translating the content
- Viewing the history of the content
- Publishing the content

# Publishing content

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > title or *View*

## Role

Content Viewer +  
Content Reviewer or  
Content Approver or  
Content Publisher

## Publishing contents

On the view tab the *Workflow* block on the right displays the used [workflow](#), the current [state](#), and the possible new [states](#).

This is only for the current language and [parameter](#) selection.

In case there are [warnings](#) with respect to the content or the current [user's role](#) does not allow transferring the content into the next workflow state, the list of new states can be empty.

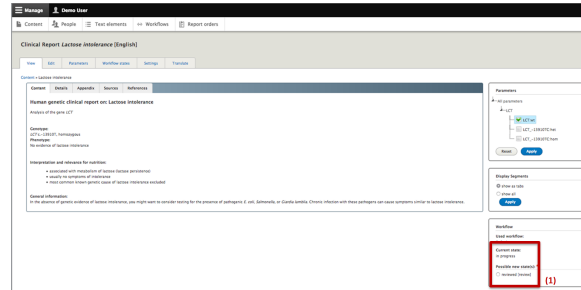
Corresponding to the workflow only the next defined state can be selected. Therefore, several publishing steps and possibly several users with different roles may be necessary in order to release a content for the publication.

1. Select the new state
2. Click *Change state* (1)

The process can be repeated until the content has reached the state 'published'.

Please note:

- The release processes can be modified for contents, single text elements and templates by the *Workflow Editor*, see [editing a workflow](#).
- In case content falls back into a non-published state, the most recently published version is delivered.
- Templates must be published before they are used for document generation.
- Integrated content must be published before it is used in document generation.



## Possible next steps

- [Editing the content](#)
- [Viewing the parameters of the content](#)
- [Viewing the workflow states of the content](#)
- [Editing the settings of the content](#)
- [Translating the content](#)
- [Viewing the history of the content](#)
- [Publishing content](#)



# Viewing content workflow states

## How to get here

### On content view tab:

- [Toolbar](#) > Data > [Content](#) > title or *View*

### On content workflow states tab:

- [Toolbar](#) > Data > Content > Operations: [Workflow states](#)
- [Toolbar](#) > Data > Content > Operations: [Edit](#) > Workflow states
- [Toolbar](#) > Data > Content > Operations: [Parameters](#) > Workflow states
- [Toolbar](#) > Data > Content > Operations: [Settings](#) > Workflow states
- [Toolbar](#) > Data > Content > Operations: [Translate](#) > Workflow states

## Role

Content Viewer

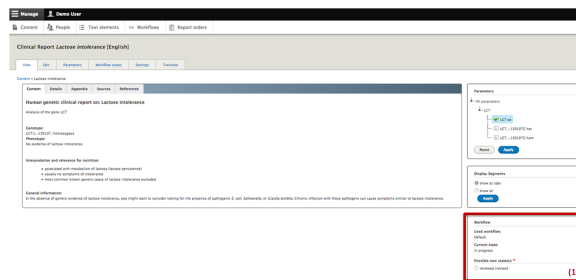
There are two places where the workflow state of the content is shown.

## On content view tab

The *Workflow* block in the right side bare displays the used [workflow](#), the current [state](#), and the possible new [states](#) (1).

This is only for the current translation language and [parameter](#) selection.

In case there are [warnings](#) or the current [user's role](#) does not allow transferring the content into the next workflow state, the list of new states can be empty.



## On content workflow states tab

Here the workflow states for all [parameter](#) combinations are shown for the current translation language.

The list contains

- the [parameters](#)
- the [workflow state](#)
- the [user](#) who has set the workflow state
- the date when the workflow state has been set

PARAMETER	STATE	USER	DATE
LCT set	published	workflowmanager	06/29/2016 - 16:03
LCT_11816FC Set	published	workflowmanager	06/29/2016 - 16:03
LCT_11816FC Nam	published	workflowmanager	06/29/2016 - 16:03

**Possible next steps**

- [Viewing the workflow states of the content](#)
- [Editing the content](#)
- [Viewing the parameters of the content](#)
- [Editing the settings of the content](#)
- [Translating the content](#)

# Viewing content history

How to get here

Default way:

[Toolbar](#) > [Data](#) > [Content](#) > title or *View* > *Compare revisions*

**Role**

Content Viewer

## Temporary inactivated

A modal window opens with the overview of the revisions of the [content](#). Only the revisions which are different to the previous revision are shown. For this, the current translation language and the current [parameter](#) selection are used.

For each revision the following information is shown:

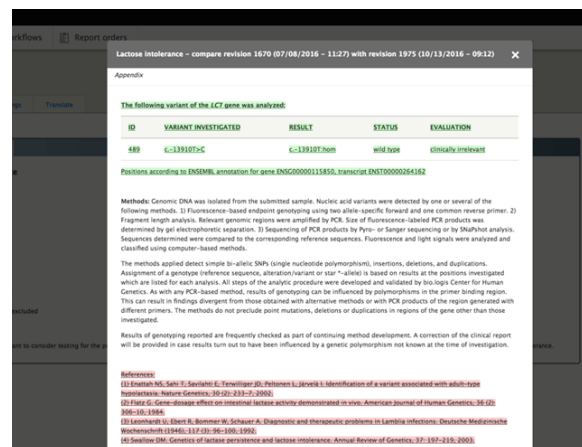
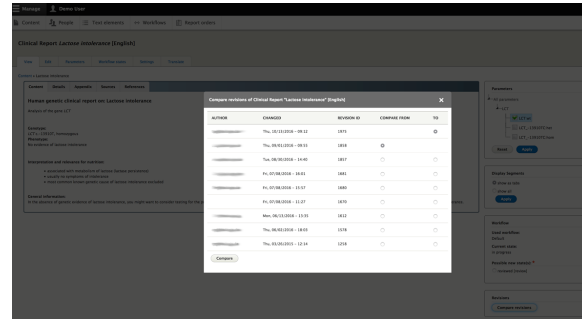
- author: the [user](#) who created the revision
- changed: the date when the revision was created
- revision id
- compare from: needed for comparing two revisions
- compare to: needed for comparing two revisions

To see the difference between two revisions, select them and click *Compare*.

To close the modal window, click *x*.

Removed content is marked in red and crossed out, new content is marked in green and underlined.

To go back, click *Back to Revision Overview*. To close the modal window, click *x*.







### Possible next steps

- [Editing the content](#)
- [Viewing the parameters of the content](#)
- [Viewing the workflow states of the content](#)
- [Editing the settings of the content](#)
- [Translating the content](#)
- [Viewing the history of the content](#)
- [Publishing content](#)

# Translating contents

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: [Translate](#)

### Other ways:

- [Toolbar](#) > Data > Content > Operations: [View](#) > Translate
- [Toolbar](#) > Data > Content > Operations: [Edit](#) > Translate
- [Toolbar](#) > Data > Content > Operations: [Parameters](#) > Translate
- [Toolbar](#) > Data > Content > Operations: [Workflow states](#) > Translate
- [Toolbar](#) > Data > Content > Operations: [Settings](#) > Translate

## Role

Content Editor

The list displays in which languages the content is already available.

If you choose to add another translation an exact copy of the [content](#) in the original language will be created. This way the content structure, [parameter](#) tree, [content boxes](#) and [content elements](#) as well as defined [rules](#) are already in place and the user only has to translate the actual text within the content elements manually. If a used content element within the content already has a translation for the target language, this one will be used. All translated content elements will be marked as outdated to indicate that changes may be needed here. The outdated label is resolved, when the content is approved (see [Publishing content](#), [Configuring workflows](#))

Select the language for your new translation and click *Add* (1).

1. Optional: Enter a new title for the content
2. Click *Save*

Translations of *pharma*

View	Edit	Parameters	Workflow states	Settings	Translate
------	------	------------	-----------------	----------	-----------

Content » pharma » Translations		
LANGUAGE	TRANSLATION	OPERATIONS
English (Original language)	pharma	<a href="#">Edit</a>
German	N/A	(1) <a href="#">Add</a>

Content | People | Text elements

---

Create *English* translation of *Zystische Fibrose*

Content » Zystische Fibrose » Translations » Add » Add » Add

**Title**

Zystische Fibrose (2)

Portal Title

Change class

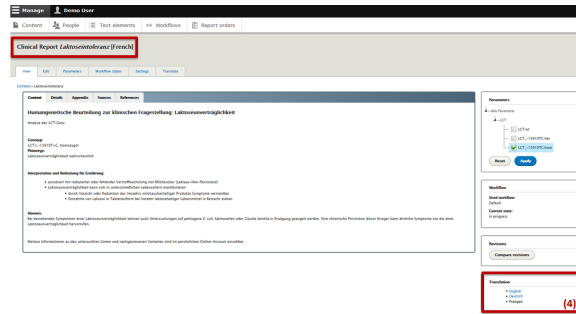
☐ Minor Change

☒ Major Change

[Save](#) (3)

On the view tab the *Translations* block on the right shows the available translation languages and allows to switch between them (4).

For translating selected content elements, see [Translating content elements](#).



### Possible next steps

- [Editing the content](#)
- [Viewing the parameters of the content](#)
- [Viewing the workflow states of the content](#)
- [Editing the settings of the content](#)
- [Translating the content](#)
- [Viewing the history of the content](#)
- [Publishing content](#)

# Variables

## How to get here

### Default way:

[Toolbar](#) > Data > Content > Title > [Parameters](#)

[Toolbar](#) > Data > Content > Title > Settings

### Other ways:

[Toolbar](#) > Data > [Content](#) > Operations:  
*Parameters*

[Toolbar](#) > Data > [Content](#) > Operations: *Settings*

## Role

Content Settings Editor

Parameter Editor

User can define three different variables to denote patient-specific data: parameter, general information or measurement. They are managed and transmitted to DRM by a requesting system (e.g. LIMS, LIS).

Variables can be used within rules or placeholders. As soon as the value of a variable is brought to DRM, a corresponding rule or placeholder can be fulfilled (note that the possible operations differ depending on the type of variable). This way, the user can customize the content accordingly with patient-specific data.

Basically, parameters might represent analysis results. General information can display patient-specific data in the form of verbal values and measurements can include numerical values.

## Example variables:

- A parameter can be the genotype of a proband (e.g. "wild type", "c.890A>G", "p.Lys297Arg", "F508del:hom").
- A general information can be the name, gender, indication of a proband (e.g. "Patient Name", "Medical History", "Proband Date of Birth").
- A measurement can be clinical testing results of a proband (e.g. "Biomarker Testing Results", "Biochemical Testing Results", "Blood Count").

## Possible next steps

- [Adding and editing a class](#)
- [Adding and editing parameters](#)
- [Adding new general information](#)
- [Adding new measurements](#)

# Parameters

# Parameter overview

## How to get here

### Default way:

- **Toolbar** > Data > **Content** > Operations: *Parameters*
- **Toolbar** > Data > **Content** > *View*

### Other ways:

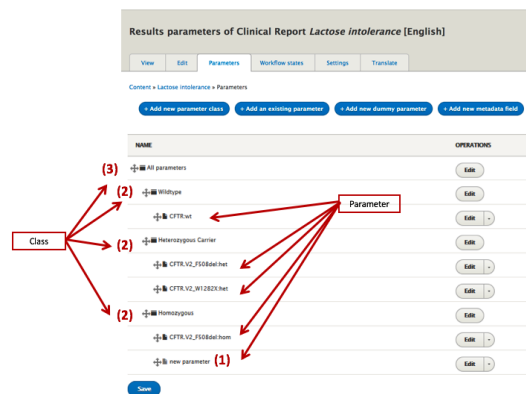
- **Toolbar** > Data > Content > Operations: *View* > Parameters
- **Toolbar** > Data > Content > Operations: *Edit* > Parameters
- **Toolbar** > Data > Content > Operations: *Workflow states* > Parameters
- **Toolbar** > Data > Content > Operations: *Settings* > Parameters
- **Toolbar** > Data > Content > Operations: *Translate* > Parameters

## Role

Parameter Editor

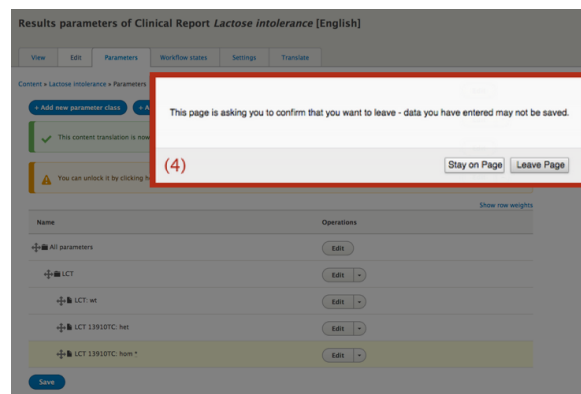
A parameter is patient-specific data which is delivered to the DRM. The delivered parameters determine the **content** output based on the **rules** set for the **content boxes**.

Example: Four different results of CFTR genotyping are visible as **parameters**. Also a new parameter, not defined, is shown (1). They are divided into three **classes** depending on their zygosity (2). The parameter classes are subordinated the main class *All parameters* (3).



As soon as the parameter structure is edited, a confirmation is required to leave or reload the *Parameters* tab without saving. In the modal window (4) click:

- *Stay on Page* to keep the changes
- *Leave Page* to discard all unsaved changes



On the *View* tab content linked to various parameter combinations can be made visible (5).

Please note:

In special cases parameters e.g. for cytogenetics are computed from other transmitted information. These computed parameters are not displayed in the *View* tab in the *Report order values* block. They are made visible into a modal without changing options (6). It is available by clicking the *Show transformed values* - button (7).

**Report order values**

**Lactose intolerance**

► GENERAL INFORMATION

► MEASUREMENTS

▼ PARAMETERS

└─ All parameters

└─ LCT

└─ LCT:wt

└─ ☒ LCT\_-13910TC:het

└─ LCT\_-13910TC:hom

(5)

Clear Reset Dummy values

**Apply** (5a)

Report order values from order 10055212\_SENDER\_0

**Show transformed values** (6)

**Zytogenetik**

► GENERAL INFORMATION

► MEASUREMENTS

► PARAMETERS

Clear Reset

Dummy values **Apply**

**Transformed Values**

► GENERAL INFORMATION

► MEASUREMENTS

► PARAMETERS

└─ Results

└─ All parameters

└─ Karyotype Cell line 1

└─ All parameters

└─ Aberrant

└─ ☒ Normal

└─ Karyotype Cell line 2

└─ Karyotype Cell line 3

└─ Karyotype Cell line 4

(7)

Clear Dummy values

Apply

**Possible next steps**

- [Adding a class](#)
- [Adding a dummy parameter](#)
- [Adding a new metadata field](#)
- [Editing a class, Editing a parameter, Editing metadata of a parameter](#)
- [Inactivating a parameter](#)
- [Reactivating a parameter](#)
- [Viewing content](#)
- [Editing the content](#)
- [Viewing the workflow states of the content](#)
- [Editing the settings of the content](#)
- [Translating the content](#)



# Adding and editing a class

## How to get here

### Default way:

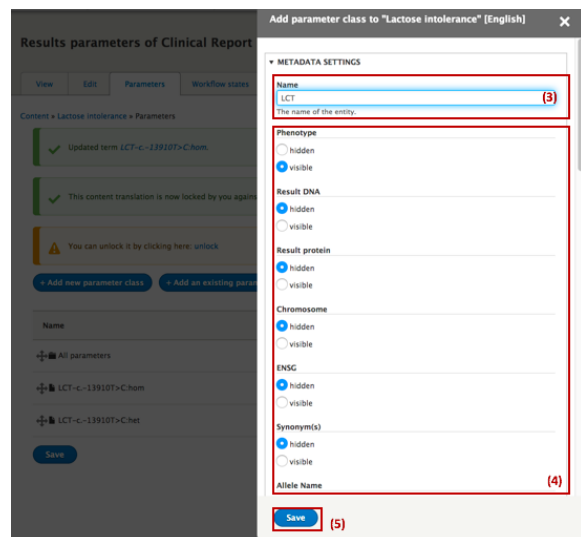
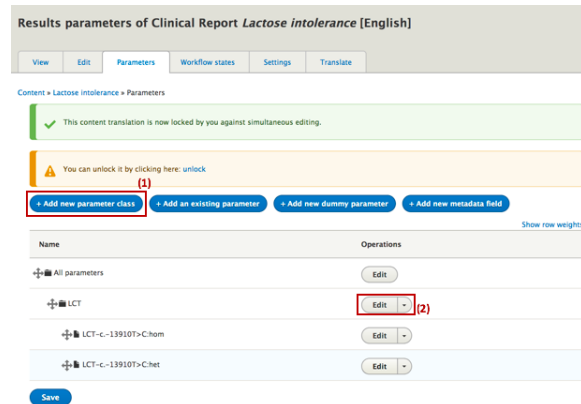
Toolbar > Data > Content > Operations:  
Parameters

## Role

Parameter Editor

## How to edit:

- to add classes: click on *Add new parameter class* (1)
- to edit classes: click the *Edit* operation of an existing class (2)
- Enter a name for the class (3).
- Set *metadata fields* visible that have to be shown on *parameters* of the class (4).
- Click *Save* (5).



**Possible next steps**

- [Adding a class](#)
- [Adding a dummy parameter](#)
- [Adding a new metadata field](#)
- [Editing a class, Editing a parameter, Editing metadata of a parameter](#)
- [Inactivating a parameter](#)
- [Reactivating a parameter](#)
- [Viewing content](#)
- [Editing the content](#)
- [Viewing the workflow states of the content](#)
- [Editing the settings of the content](#)
- [Translating the content](#)

# Adding and editing parameters

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations:  
[Parameters](#)

### Other ways:

[Toolbar](#) > Data > [Report orders](#) > Requested  
Report > Parameters

## Role

Parameter Editor

When [generating a parameter tree](#), different kinds of parameters can be assigned. There are two options:

1. Adding a [real parameter](#) already existing in another content
2. Adding a [dummy parameter](#) as a placeholder until the appropriated real parameter is transmitted into the DRM

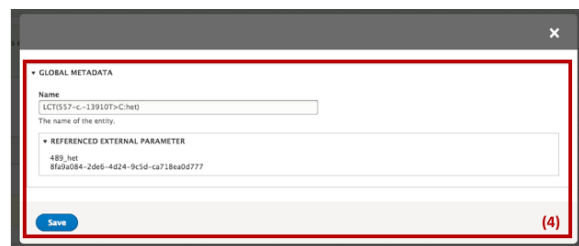
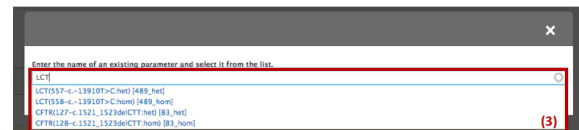
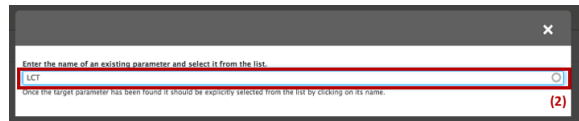
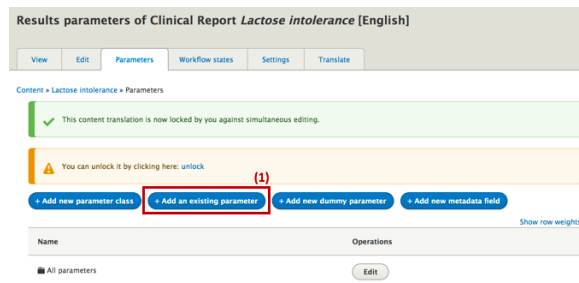
## Adding real parameters from another content

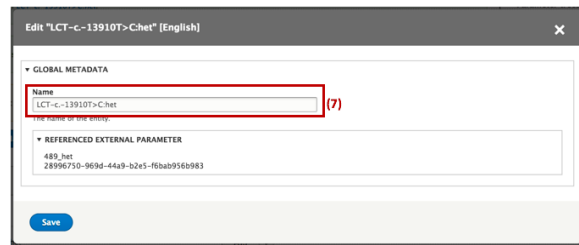
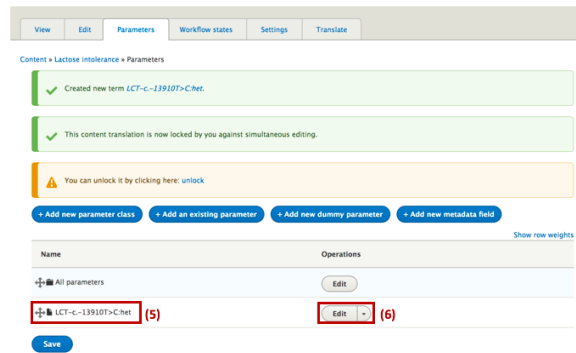
How to add:

- Click *Add an existing parameter* (1).
- Enter a name for the parameter (2) and select the right one from the list (3).
- The modal window changes (4). Click *Save*.
- Assign the [parameter](#) to a [class](#) by dragging it to the appropriate position within the structure using the dragging symbol (5).

How to edit:

- Click the *Edit* operation of an existing real parameter (6).
- Optional: change the selection by another real parameter from the list (7).
- Click *Save*.





## Dummy parameters

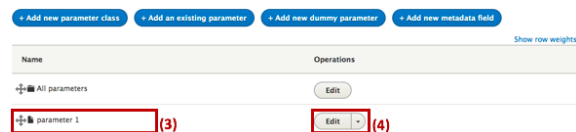
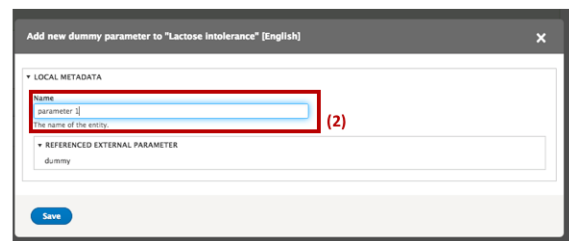
How to add:

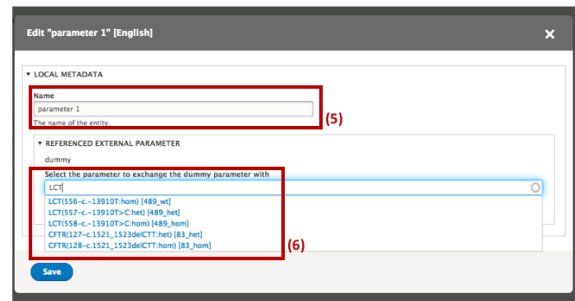
- open the dropdown button and click *Add new dummy parameter* (1)
- Enter a name for the **dummy parameter** (2) in the modal window.
- Click *Save*.
- Assign the new **parameter** to a **class** by dragging it to the appropriate position within the structure using the dragging symbol(3).



How to edit:

- Click the *Edit* operation of an existing dummy parameter (4).
- Optional: change the name for the dummy parameter (5).
- Optional: replace the dummy parameter by a real parameter (6).
- Optional: in case the dummy parameter is in a **class** with visible **metadata fields**, these fields can be filled.
- Click *Save*.





### Possible next steps

- [Adding a class](#)
- [Adding a dummy parameter](#)
- [Adding a new metadata field](#)
- [Editing a class, Editing a parameter, Editing metadata of a parameter](#)
- [Inactivating a parameter](#)
- [Reactivating a parameter](#)
- [Viewing content](#)
- [Editing the content](#)
- [Viewing the workflow states of the content](#)
- [Editing the settings of the content](#)
- [Translating the content](#)

# Generating a parameter tree

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations:  
[Parameters](#)

### Other ways:

- [Toolbar](#) > Data > Content > Operations: *View* > Parameters
- [Toolbar](#) > Data > Content > Operations: *Edit* > Parameters
- [Toolbar](#) > Data > Content > Operations: *Workflow states* > Parameters
- [Toolbar](#) > Data > Content > Operations: *Settings* > Parameters
- [Toolbar](#) > Data > Content > Operations: *Translate* > Parameters

## Role

Parameter Editor

The hierarchy of classes and parameters is generated by dragging and dropping all [parameters](#) into the preset [class All parameters](#). [Classes](#) and [parameters](#) are allocated by moving them below the parent class with an indent.

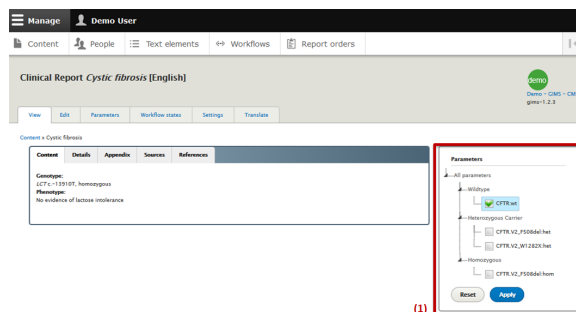
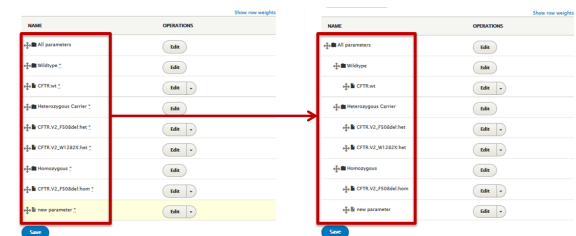
Note that each [parameter](#) must be at the end of a branch and that below a [parameter](#), there can be no other [parameter](#) or [class](#).

Click *Save*.

In case it is possible to replace a [dummy parameter](#) by a real [parameter](#), another [page](#) opens (see [Replacing a dummy parameter](#)).

New [parameters](#) and new [classes](#) appear on the first level of the [parameter tree](#).

The same [parameter tree](#) on the [content view](#) tab:



**Possible next steps**

- [Adding a class](#)
- [Adding a dummy parameter](#)
- [Adding a new metadata field](#)
- [Editing a class, Editing a parameter, Editing metadata of a parameter](#)
- [Inactivating a parameter](#)
- [Reactivating a parameter](#)
- [Viewing content](#)
- [Editing the content](#)
- [Viewing the workflow states of the content](#)
- [Editing the settings of the content](#)
- [Translating the content](#)

# Replacing a dummy parameter

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations:  
[Parameters](#)

### Other ways:

- [Toolbar](#) > Data > Content > Operations: [View](#) > Parameters
- [Toolbar](#) > Data > Content > Operations: [Edit](#) > Parameters
- [Toolbar](#) > Data > Content > Operations: [Workflow states](#) > Parameters
- [Toolbar](#) > Data > Content > Operations: [Settings](#) > Parameters
- [Toolbar](#) > Data > Content > Operations: [Translate](#) > Parameters

## Role

Parameter Editor

When [generating a parameter tree](#), it may be possible to replace [dummy parameters](#) by [real parameters](#). There are two options:

1. Replace the dummy parameter with a real parameter that already exists in the DRM in another content, but is not yet present in the current content.
2. Replace the dummy parameter with a real parameter transmitted by another system e.g. LIMS

## Replacement by a real parameter from another content

- Click *Edit*. A modal window opens.
- Enter the name of a real parameter and select the right one from the list (2).
- Optional: Delete the dummy parameter name. Otherwise the parameter will be continued with this name in this content (3).
- Click *Save*.
- The replaced parameter is displayed in the parameter tree (4).

+ Add new parameter class   + Add an existing parameter   + Add new dummy parameter   + Add new metadata field	
Name	Operations
+ All parameters	Edit
+ LCT	Edit
+ parameter 1	Edit (1)
+ LCT<-13910T>C:hom	Edit

Edit "parameter 1" [English]

LOCAL METADATA

Name  
parameter 1  
The name of the entry

REFERENCED EXTERNAL PARAMETER

dummy

Select the parameter to exchange the dummy parameter with  
LCT  
LCT1536<-13910T:hom) [489\_wt]  
LCT1537<-13910T>C:het) [489\_het]  
LCT1538<-13910T>C:hom) [489\_hom]  
CFT8(127<-1521\_1523delCTT:het) [83\_het]  
CFT8(128<-1521\_1523delCTT:hom) [83\_hom]

Save



## Replacement by real parameters from this content

When a new **parameter** is imported into the content, sort it into the same **class** as its corresponding **dummy parameter** (1). Click *Save*.

+ Add new parameter class   + Add an existing parameter   + Add new dummy parameter   + Add new metadata field

Name	Operations
+ All parameters	Edit
+ LCT	Edit
+ LCT-C-13910T.hom (4)	Edit
+ LCT-C-13910T>C.hom	Edit

Name	Operations
+ LCT-C-13910T.hom (1)	Edit
+ All parameters	Edit
+ LCT	Edit
+ LCT wt	Edit
+ LCT-C-13910T>C.hom	Edit
+ LCT-C-13910T>C.het	Edit

Save

For each new **real parameter**, that should replace a **dummy parameter**, select *Yes* (2), otherwise *No*. Select which dummy parameter in the same **class** should be replaced (3). Click *Save* (4).

Name	Operations
+ All parameters	Edit
+ LCT	Edit
+ LCT-C-13910T.hom (1)	Edit
+ LCT wt	Edit
+ LCT-C-13910T>C.hom	Edit
+ LCT-C-13910T>C.het	Edit

Save

TURN DUMMY PARAMETERS INTO REAL PARAMETERS BY OVERTAKING THE VALUES OF NEW PARAMETERS AND ITS REFERENCE TO THE NEW EXTERNAL PARAMETER.

\* SELECT DUMMY PARAMETER TO OVERTAKE THE VALUES OF THE NEW REAL PARAMETER "LCT-C-13910THOM".

Do you want to exchange a dummy parameter with the new real parameter "LCT-C-13910THOM"?

☐ No, I do not want to exchange it with a dummy parameter. Not now and not later as well.

☒ Yes, I do want to exchange it with a dummy parameter. (2)

Which dummy parameter should be replaced? (3)

LCT wt

Save (4)   Back   Cancel

The dummy parameter is replaced by all metadata of the real parameter (6). The imported parameter is deactivated and set to the end of the **parameter tree**. He also gets the addition EXCHANGED (5).

Name	Operations
+ All parameters	Edit
+ LCT	Edit
+ LCT wt (6)	Edit
+ LCT-C-13910T>C.hom	Edit
+ LCT-C-13910T>C.het	Edit
+ LCT-C-13910T.hom EXCHANGED (5)	Edit

Save

Optional: To adapt the name of the parameter, click *Edit* (6). Change the parameter name locally e.g. by using the global name (7). The new name is displayed in the parameter tree (8).

Edit "LCT wt" [English]

LOCAL METADATA

Name  
LCT wt  
The name of the entity. (7)

GLOBAL METADATA

Name  
LCT-C-13910T.hom  
The name of the entity.

REFERENCED EXTERNAL PARAMETER

489\_wt  
75b6d583-599e-49d7-8711-15da2ac593b3

Phenotype

Phenotype

Save

Name	Operations
⊕ All parameters	Edit
⊕ LCT	Edit
⊕ LCT-C-13910T.hom	Edit (8)
⊕ LCT-C-13910T>C.hom	Edit
⊕ LCT-C-13910T>C.het	Edit
⊕ LCT-C-13910T.hom EXCHANGED	Edit
Save	

### Possible next steps

- [Adding a class](#)
- [Adding a dummy parameter](#)
- [Adding a new metadata field](#)
- [Editing a class, Editing a parameter, Editing metadata of a parameter](#)
- [Inactivating a parameter](#)
- [Reactivating a parameter](#)
- [Viewing content](#)
- [Editing the content](#)
- [Viewing the workflow states of the content](#)
- [Editing the settings of the content](#)
- [Translating the content](#)

# Inactivating a parameter

How to get here

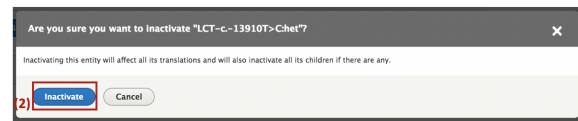
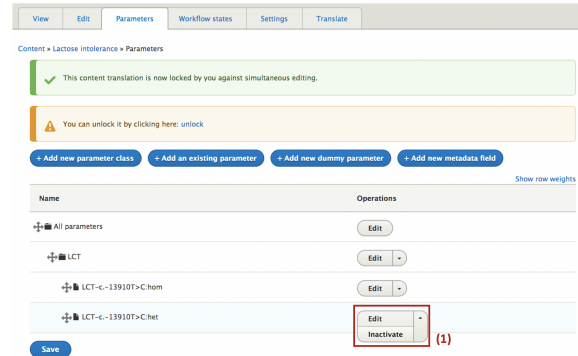
Default way:

Toolbar > Data > Content > Operations:  
Parameters > Operations: *Inactivate*

Role

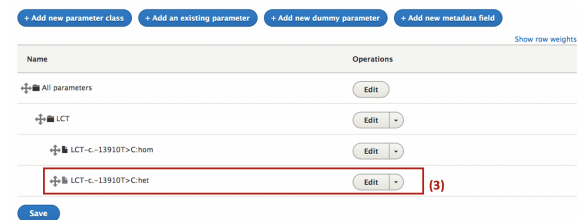
Parameter Editor

In order to make a parameter **inactive**, confirm by clicking *Inactivate* in the modal window (1,2).



The inactivated parameter is marked grey (3). Click *Save*.

On the View tab inactivated parameters are not visible in the selection of Report order values.



**Report order values**

**Lactose intolerance**

► GENERAL INFORMATION

► MEASUREMENTS

▼ PARAMETERS

- └─ All parameters
  - └─ LCT
    - └─ ☐ LCT-c.-13910T>C:hom

Clear Reset

Dummy values Apply

### Possible next steps

- [Adding a class](#)
- [Adding a dummy parameter](#)
- [Adding a new metadata field](#)
- [Editing a class, Editing a parameter, Editing metadata of a parameter](#)
- [Inactivating a parameter](#)
- [Reactivating a parameter](#)
- [Viewing content](#)
- [Editing the content](#)
- [Viewing the workflow states of the content](#)
- [Editing the settings of the content](#)
- [Translating the content](#)

# Reactivating a parameter

How to get here

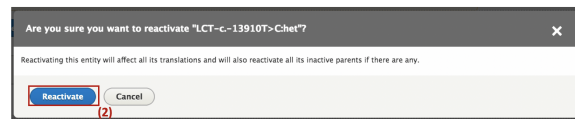
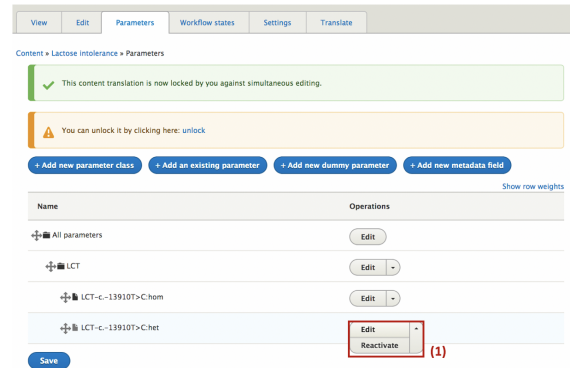
Default way:

[Toolbar](#) > Data > [Content](#) > Operations:  
[Parameters](#) > Operations: *Reactivate*

**Role**

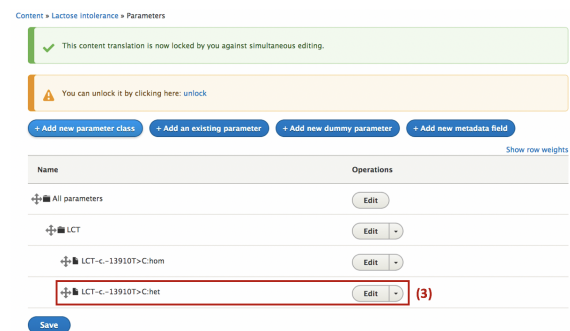
Parameter Editor

In order to reactivate a parameter, confirm by clicking *Reactivate* in the modal window (1,2).



The reactivated parameter is marked black (3). Click *Save*.

On the View tab reactivated parameters are visible in the selection of Report order values again.



**Report order values**

**Lactose intolerance**

► GENERAL INFORMATION

► MEASUREMENTS

▼ PARAMETERS

└─ All parameters

    └─ LCT

☐ LCT-c.-13910T>C:hom

☐ LCT-c.-13910T>C:het

Clear    Reset

Dummy values    **Apply**

**Possible next steps**

- [Adding a class](#)
- [Adding a dummy parameter](#)
- [Adding a new metadata field](#)
- [Editing a class, Editing a parameter, Editing metadata of a parameter](#)
- [Inactivating a parameter](#)
- [Reactivating a parameter](#)
- [Viewing content](#)
- [Editing the content](#)
- [Viewing the workflow states of the content](#)
- [Editing the settings of the content](#)
- [Translating the content](#)

# Working with metadata

# Adding a new metadata field

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations:  
[Parameters](#)

## Role

Parameter Editor

1. Click *Add new metadata field* (1)
2. Enter the properties of the [metadata field](#)

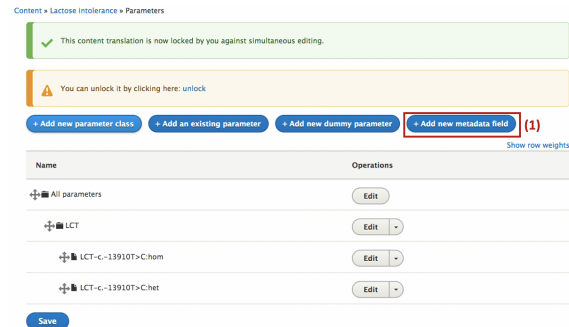
- Label: Enter a name for the field (2)
- Translatable (3):

Mark the metadata field as translatable if the value is intended to be different in different translations of the [content](#). In this case, values entered into one translation of the content are restricted to this translations. In other translations, the same metadata field has to be filled separately.

Mark a field as not translatable if identical field content is intended to be used in all translations of the [content](#). In this case, values entered into one language version of the content will be carried over into all other translations.

- Allowed number of value: unlimited or limited to a given number (4)

3. Click *Save* (5)



## Possible next steps

- [Adding a class](#)
- [Adding a dummy parameter](#)
- [Adding a new metadata field](#)
- [Editing a class, Editing a parameter, Editing metadata of a parameter](#)
- [Inactivating a parameter](#)
- [Reactivating a parameter](#)
- [Viewing content](#)
- [Editing the content](#)
- [Viewing the workflow states of the content](#)
- [Editing the settings of the content](#)
- [Translating the content](#)



# Connect metadata fields to parameters

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations:  
[Parameters](#)

### Other ways:

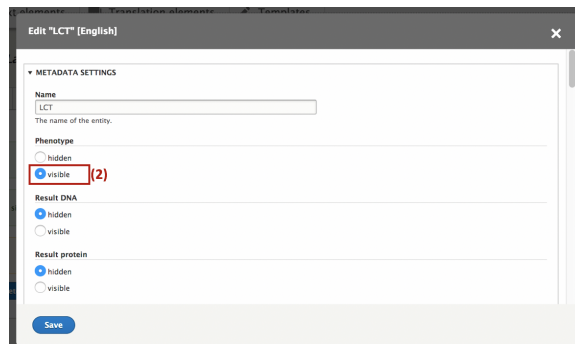
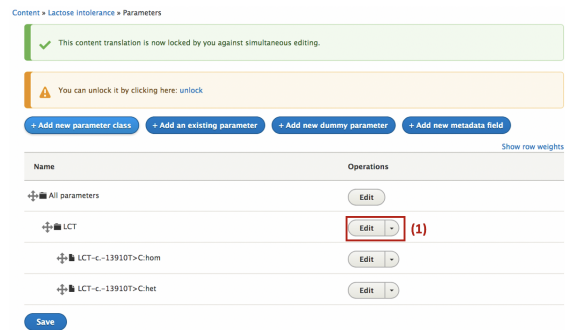
- [Toolbar](#) > Data > Content > Operations: *View* > Parameters
- [Toolbar](#) > Data > Content > Operations: *Edit* > Parameters
- [Toolbar](#) > Data > Content > Operations: *Workflow states* > Parameters
- [Toolbar](#) > Data > Content > Operations: *Settings* > Parameters
- [Toolbar](#) > Data > Content > Operations: *Translate* > Parameters

## Role

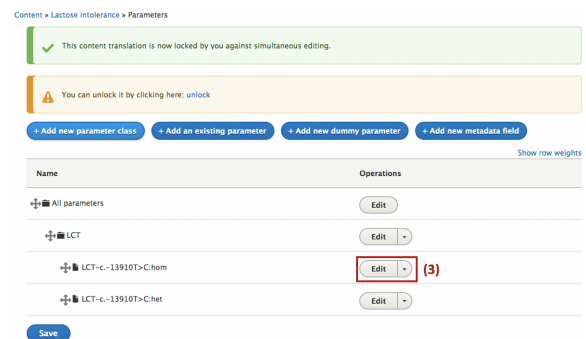
Parameter Editor

If the [metadata field](#) does not exist yet, see [Adding a new metadata field](#).

1. Click the *Edit* operation of the [class](#) which contains all the [parameters](#) who need the metadata (1).  
In the modal window, select *visible* for the desired [metadata fields](#) (2).
2. Click *Save*.



Optional: Click *Edit* (3). The metadata field is now visible for all parameters of the class (4).



Edit "LCT-c-13910T>Chom" [English]

Name  
LCT-c-13910T>Chom  
The name of the entity.

GLOBAL METADATA

Name  
LCT-c-13910T>Chom  
The name of the entity.

REFERENCED EXTERNAL PARAMETER

489\_hom  
5361a824-c1b4-422b-8c1a-21ca86cf90ea

Phenotype

(4)

Save

### Possible next steps

- [Adding a class](#)
- [Adding a dummy parameter](#)
- [Adding a new metadata field](#)
- [Editing a class, Editing a parameter, Editing metadata of a parameter](#)
- [Inactivating a parameter](#)
- [Reactivating a parameter](#)
- [Viewing content](#)
- [Editing the content](#)
- [Viewing the workflow states of the content](#)
- [Editing the settings of the content](#)
- [Translating the content](#)

# Editing metadata of a parameter

## How to get here

### Default way:

Toolbar > Data > Content > Operations:  
Parameters > Operations: Edit

### Other ways:

Toolbar > Data > Report orders > Requested  
report > Parameters

## Role

Parameter Editor

In the open modal window, add or change the value of the metadata.

If the parameter is a [dummy parameter](#), the entered metadata is only in the [local context](#).

The following information can be changed:

- name of the parameter (1)
- replacement of the [dummy parameter](#) by an existing parameter (2)
- values of the visible metadata fields (3)

If the [parameter](#) is a real [parameter](#), metadata can be changed locally (4), only in this content, or globally (5), in all contents (using this parameter).

## Possible next steps

- Adding a class
- Adding a dummy parameter
- Adding a new metadata field
- Editing a class, Editing a parameter, Editing metadata of a parameter
- Inactivating a parameter
- Reactivating a parameter
- Viewing content
- Editing the content
- Viewing the workflow states of the content
- Editing the settings of the content
- Translating the content



# General information

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Settings

### Other ways:

- [Toolbar](#) > Data > Content > Operations: *View* > Settings
- [Toolbar](#) > Data > Content > Operations: *Edit* > Settings
- [Toolbar](#) > Data > Content > Operations: *Parameters* > Settings
- [Toolbar](#) > Data > Content > Operations: *Workflow states* > Settings
- [Toolbar](#) > Data > Content > Operations: *Translate* > Settings

## Role

Content Settings Editor

**General information** (GIs) are patient or case-related data that are managed in external systems e.g. LIMS. They can be used to create a patient-specific clinical report within an automatic process of report generation. A general information is imported encrypted or unencrypted with a [report order](#) into the DRM, the decryption is carried out in a downstream system. General information can be integrated directly into [content elements](#) or [templates](#) by [placeholders](#) or they can be used in the rule engine to decide under which conditions a [content box](#) with included content elements is presented in the delivered content.

## Setting general information default values (1)

### 1) mandatory: ID

The ID is predefined by the administrator. It is the unique universal identifier for this general information, used in communication of the DRM and external systems e.g. LIMS.

### 2) optional: Status, Description, Domain, Name

Freely available fields for adding metadata to the general information. These additional information can be included from external systems and can be applied in placeholders. If no value is imported, the here assigned default values is inserted into placeholders.

### Please note:

- A General information is displayed in the DRM with its name. In case a default name is not assigned here, the ID is shown.
- Value fields are limited in their number of characters:  
ID: 128  
Description: 255

Domain: 255  
 Name: 255  
 Value: unlimited

## Setting general information attributes (optional)(2)

### 1) no attributes

- patient-related data without direct reference to the person such as age, sex, medical indications
- not strictly necessary: content will be delivered even if optional general information are not provided by LIMS
- values are integrated into the content within the DRM

### 2) Required

- patient-related data without direct reference to the person such as age, sex, medical indications
- mandatory: content will be delivered only if all required general information are provided by LIMS
- values are integrated into the content within the DRM

### 3) Protected

- patient-related data with direct reference to the person such as name, family diagnosis
- values transmitted to the DRM in encrypted form and decrypted in downstream systems
- values are integrated into the content within the DRM
- rule engine: can only be used in the rule 'is true'
- placeholders: content is not displayed on the *View* tab, but is filled in the report
- can not be linked to computed, Linked to parameter(s), Multiple input elements

### 4) Computed

- predefined by biologists GIM
- detailed information generated automatically from patient-related data/case-specific results such as cell line specific sex for cytogenetic analysis
- is not displayed in the *Report order values* block on the View tab, but is listed in a modal available via the *Show transformed values* button
- values are generated automatically within the DRM during the [preprocessing](#)
- recommended as extension for cytogenetic report templates
- can not be linked to Protected
- can not be linked to Required
- dummy values cannot be set

### 5) Linked to parameter(s)

- patient-related data in dependency of specific parameters
- values are integrated into the content within the DRM
- recommended as extension for cytogenetic report templates
- can not be linked to Protected

### 6) Multiple input elements

- patient-related data with values extended by detailed information assigned as indices such as different titles in an address header
- rule engine: values or indices can be used
- placeholders: values or indices can be used
- values are integrated into the content within the DRM
- can not be linked to Protected

## Setting general information dummy values (optional)(3)

Dummy values can be defined here as a presetting for the review of content on the View tab (4). Click *Dummy values* and they will be used for the rule engine and filled in placeholders in the preview. For all details of a general information the random dummy value is predefined except the name, for which the default is set. The preset of dummy values can be changed.

### 1) Default

Assigned default values (1) will be entered. In case of the *Value* the default setting leads to an empty dummy value.

### 2) Random

A completely arbitrary sequence of 5 words from Lorem Ipsum texts will be entered.

### 3) Fixed

The selection of Fixed opens a new field in which a static dummy value can be entered that will be transmitted then in the preview (5).

Please note:

Manually overwritten dummy values on the View tab will remain intact, even if the *Dummy values* button is clicked again.

# Adding new general information

## How to get here

### Default way:





[Toolbar](#) > Data > [Content](#) > Operations > *Settings*

## Role

Content Settings Editor

1. Click the + (1) at the bottom of the [Required](#) or [Protected General Information](#) to open a *New General Information* block.
2. To assign the definition of the new general information see [Default setting of general information](#).

[Show row weights](#)

General Information	
	<div>► SEX</div> <div><input type="checkbox"/> Remove</div> <div>Remove this general information.</div>
	<div>► INDICATION</div> <div><input type="checkbox"/> Remove</div> <div>Remove this general information.</div>
	<div>► MEDICAL HISTORY</div> <div><input type="checkbox"/> Remove</div> <div>Remove this general information.</div>
	<div>► NEW GENERAL INFORMATION</div> <div><input type="checkbox"/> Remove</div> <div>Remove this general information.</div>

Define the general information that are required to create the report. General information that contain protected data will be added later in the rendering process.

+

 (1)

## Possible next steps

- [Viewing content](#)
- [Default setting of general information](#)
- [Editing general information](#)
- [Removing general information](#)
- [Viewing the workflow states of the content](#)
- [Translating the content](#)
- [Viewing the history of the content](#)
- [Publishing content](#)



# Editing general information

## How to get here

### Default way:


[Toolbar](#) > Data > [Content](#) > Operations: *Settings*

1. Click the general information details to open it (1).
2. Change the content (2).
3. *Save*.

## Role


Content Settings Editor

### General Information

 SEX (1)

☐ Remove  
Remove this general information.

### General Information

 SEX (2)

☐ Required ☒ Protected ☐ Computed ☐ Linked to parameter(s) ☐ Multiple input elements

ID  
123  
Laboratory specific general information external ID.

☐ Status (dummy value)  
Status of the general information.

Description (dummy value)  
Description of the general information.

Domain (dummy value)  
Domain of the general information.

Name (dummy value)  
Name of the general information.

Status (dummy value)  
☐ Default ☒ Random ☐ Fixed

Description (dummy value)  
☐ Default ☒ Random ☐ Fixed

Domain (dummy value) ☐ Default ☐ Random ☒ Fixed value

Name (dummy value)  
☒ Default ☐ Random ☐ Fixed

Value  
☒ Default ☐ Random ☐ Fixed

## Possible next steps

- [Viewing content](#)
- [Default setting of general information](#)
- [Editing general information](#)
- [Removing general information](#)
- [Viewing the workflow states of the content](#)
- [Translating the content](#)
- [Viewing the history of the content](#)
- [Publishing content](#)

# Removing general information

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: *Settings*

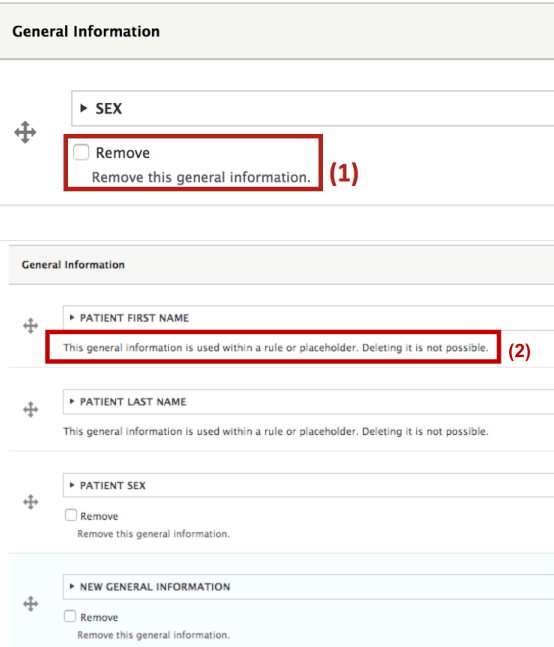
## Role

Content Settings Editor

1. Tick the checkbox for *Remove* at the bottom of the *General Information* details (1).
2. *Save*.

## Please note:

If the general information is used as part of a rule or a placeholder, it is not possible to remove it. In such a case, a notification will displace the checkbox for *Remove* (1).



The screenshot shows the 'General Information' settings editor. It contains several sections, each with a 'Remove' checkbox. The first section, 'SEX', has a red box around the 'Remove' checkbox with a red number (1) next to it. The second section, 'PATIENT FIRST NAME', has a red box around the text 'This general information is used within a rule or placeholder. Deleting it is not possible.' with a red number (2) next to it. The third section, 'PATIENT LAST NAME', also has a red box around the same text with a red number (2) next to it. The fourth section, 'PATIENT SEX', has a red box around the 'Remove' checkbox with a red number (1) next to it. The fifth section, 'NEW GENERAL INFORMATION', has a red box around the 'Remove' checkbox with a red number (1) next to it.

## Possible next steps

- [Viewing content](#)
- [Default setting of general information](#)
- [Editing general information](#)
- [Removing general information](#)
- [Viewing the workflow states of the content](#)
- [Translating the content](#)
- [Viewing the history of the content](#)
- [Publishing content](#)

# Measurements

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Settings

### Other ways:

- [Toolbar](#) > Data > Content > Operations: *View* > Settings
- [Toolbar](#) > Data > Content > Operations: *Edit* > Settings
- [Toolbar](#) > Data > Content > Operations: *Parameters* > Settings
- [Toolbar](#) > Data > Content > Operations: *Workflow states* > Settings
- [Toolbar](#) > Data > Content > Operations: *Translate* > Settings

## Role

Content Settings Editor

[Measurements](#), that are managed in external systems e.g. LIMS, can be used for creating a patient-specific clinical report within an automatic process of report generation. Measurements are transmitted with a [report order](#) into the DRM. They can be integrated directly into [content elements](#) by [placeholders](#) or they can be used in the rule engine to decide under which conditions a [content box](#) with included content elements is presented in the delivered content.

## Setting measurement default values (1)

### 1) mandatory: ID

The ID is predefined by the administrator. It is the unique universal identifier for this measurement, used in communication of the DRM and external systems e.g. LIMS.

### 2) optional: *Status, Description, Domain, Name, Value*

Freely available fields for adding metadata to the measurement. These additional information can be included from external systems and can be applied in placeholders. If no value is imported, the here assigned default values is inserted into placeholders.

Please note:

- Measurements are displayed in the DRM with its name. In case a default name is not assigned here, the ID is shown.
- Value fields are limited in their number of characters:  
ID: 128  
Description: 255  
Domain: 255  
Name: 255  
Value: unlimited  
Alarm: 255

## Setting measurement attributes (optional) (2)

### 1) no attributes

- patient-related data without direct reference to the person such as age, sex, medical indications
- not strictly necessary: content will be delivered even if optional measurements are not provided by LIMS
- values are integrated into the content within the DRM

### 2) Required

- mandatory: content will be delivered only if all required measurements are provided by LIMS
  - not filled required measurements create a warning and prevent publication
- values are integrated into the content within the DRM

### 3) Computed

- predefined by biologists GIM
- detailed information generated automatically from patient-related data/case-specific results such as the number of metaphases counted per cell line for cytogenetic analysis
- the setting is created automatically
- is not displayed in the *Report order values* block on the *View* tab, but is listed in a modal available via the *Show transformed values* button
- values are generated automatically within the DRM during the preprocessing
- recommended as extension for cytogenetic report templates
- can not be linked to Required
- dummy values cannot be set

### 4) Linked to parameter(s)

- measurements in dependency of specific parameters
- values are integrated into the content within the DRM
- recommended as extension for cytogenetic report templates

### 5) Multiple input elements

- measurement values extended by detailed information assigned as indices
- rule engine: values or indices can be used
- placeholders: values or indices can be used
- values are integrated into the content within the DRM

## Setting measurement dummy values (optional)(3)

Dummy values can be defined here as a presetting for the review of content on the *View* tab (4). Click *Dummy values* and they will be used for the rule engine and filled in placeholders in the preview. For all details of a measurement the random dummy value is predefined except the name, for which the default is set. The preset of dummy values can be changed.

### 1) Default

Assigned default values (see above) will be entered. In case of the *Value* the default setting leads to an empty dummy value.

## 2) Random

A completely arbitrary sequence will be entered:

- Description, Domain, Name and Alarm: 5 words from Lorem Ipsum texts
- Values, Percentage and Date: sequence of numbers
- Unit: any existing unit

## 3) Fixed

The selection of *Fixed* opens a new field in which a static dummy value can be entered that will be transmitted then in the preview (5).

Please note:

Manually overwritten dummy values on the *View* tab will remain intact, even if the *Dummy values* button is clicked again.

# Adding new measurements

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: *Settings*

## Role

Content Settings Editor

1. Click the + (1) at the bottom of the [Required](#) or [Optional Measurements](#) to open a *New Measurement* block.
2. To deposit the definition of the new measurement see [Default setting of measurements](#).

? Unbekannter Anhang

## Possible next steps

- [Viewing content](#)
- [Default setting of measurements](#)
- [Editing measurements](#)
- [Removing measurements](#)
- [Viewing the workflow states of the content](#)
- [Translating the content](#)
- [Viewing the history of the content](#)
- [Publishing content](#)

# Editing measurements

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: *Settings*

1. Click on the *Measurements* block to open it (1).
2. Change the content (2).
3. *Save*.

## Role

Content Settings Editor

REQUIRED MEASUREMENTS Show row weights

659122	(1)
<input type="checkbox"/> Remove	Remove this measurement.

REQUIRED MEASUREMENTS Show row weights

659122
<p>The measurement value.</p> <p><b>ID</b></p> <p>659122</p> <p>Laboratory specific measurement ID.</p> <p><input type="checkbox"/> Status</p> <p>Status of the measurement.</p> <p><b>Description</b></p> <p>Description of the measurement.</p> <p><b>Domain</b></p> <p>The domain of the measurement.</p> <p><b>Name</b></p> <p>Name of the measurement.</p> <p><b>VALUE</b></p> <p><b>REFERENCE VALUE</b></p> <p><b>PRECEDING VALUES</b> (2)</p>
<input type="checkbox"/> Remove
Remove this measurement.

## Possible next steps

- [Viewing content](#)
- [Default setting of measurements](#)
- [Editing measurements](#)
- [Removing measurements](#)
- [Viewing the workflow states of the content](#)
- [Translating the content](#)
- [Viewing the history of the content](#)
- [Publishing content](#)

# Removing measurements

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: *Settings*

1. Tick the checkbox for *Remove* at the bottom of the *Measurements* details (1).
2. *Save*.

## Please note:

If the measurement is used as part of a rule or a placeholder, it is not possible to remove it. In such a case, a notification will displace the checkbox for *Remove* (1).

## Possible next steps

- [Viewing content](#)
- [Default setting of measurements](#)
- [Editing measurements](#)
- [Removing measurements](#)
- [Viewing the workflow states of the content](#)
- [Translating the content](#)
- [Viewing the history of the content](#)
- [Publishing content](#)

## Role

Content Settings Editor

► BIOMARKER TESTING RESULTS

☐ Remove  
Remove this measurement. (1)

Measurements

► BIOMARKER TESTING RESULTS

This measurement is used within a rule or placeholder. Deleting it is not possible. (2)

► NEW MEASUREMENT

☐ Remove  
Remove this measurement.



# Content boxes

# Adding a content box to content

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: *Edit*

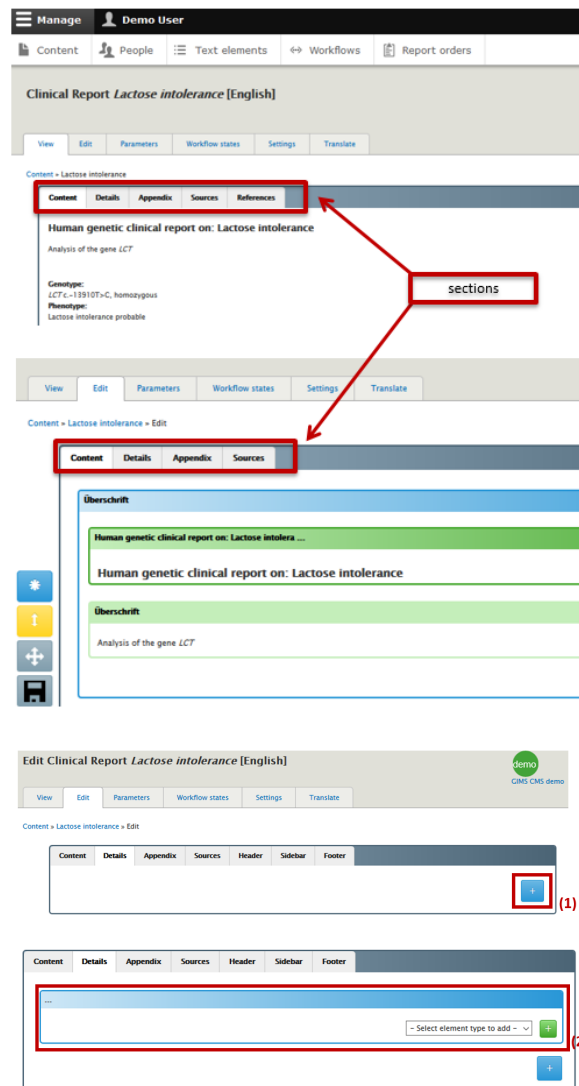
### Other ways:

- [Toolbar](#) > Data > Content > Operations: *View* > Edit
- [Toolbar](#) > Data > Content > Operations: [Parameters](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Workflow states](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Settings](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Translate](#) > Edit

## Role

Content Editor

Within the [content](#), the [content boxes](#) are allocated to different [sections](#). In order to add a content box, first select the section for which you want to add a content box.



1. Click the + (1) at the bottom of the [section](#)
2. An empty [content box](#) opens up (2)
3. Optional: Enter a title for the content box under *Content box attributes* in the right sidebar (3)

Content box attributes

Content element attributes

Title

Revisions

The name of the entity.

Tags

(3)

☐ Outdated  
This content element needs to be updated.

Move Content element to another Content box:

Remove content element

- Select -

Move

Notes on:

Similar content elements

**Possible next steps**

- [Adding content elements](#)
- [Moving a content box](#)
- [Setting the rule of a content box](#)
- [Setting an exclusion set to a content box](#)
- [Setting references to a content box](#)

# Removing a content box from content

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: [Edit](#)

### Other ways:

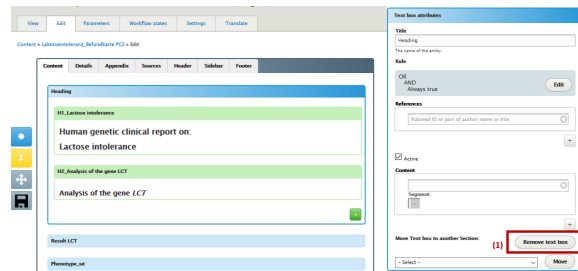
- [Toolbar](#) > Data > Content > Operations: [View](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Parameters](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Workflow states](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Settings](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Translate](#) > Edit

## Role

Content Editor

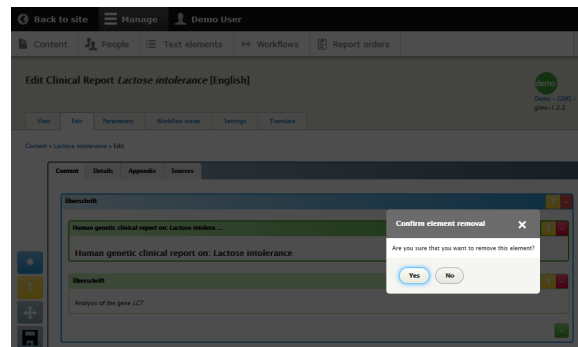
In order to remove a content box, it has to be selected.

Click the *Remove content box* button in the *Content box attributes* in the right sidebar (1).



In the modal window click *Yes*.

The content box is removed from the content.



## Possible next steps

- [Adding a content box to content](#)
- [Moving a content box](#)

# Moving a content box

## How to get here

### Default way:

[Toolbar](#) > [Data](#) > [Content](#) > [Operations](#) > [Edit](#)

### Other ways:

- [Toolbar](#) > [Data](#) > [Content](#) > [Operations](#): [View](#) > [Edit](#)
- [Toolbar](#) > [Data](#) > [Content](#) > [Operations](#): [Parameters](#) > [Edit](#)
- [Toolbar](#) > [Data](#) > [Content](#) > [Operations](#): [Workflow states](#) > [Edit](#)
- [Toolbar](#) > [Data](#) > [Content](#) > [Operations](#): [Settings](#) > [Edit](#)
- [Toolbar](#) > [Data](#) > [Content](#) > [Operations](#): [Translate](#) > [Edit](#)

## Role

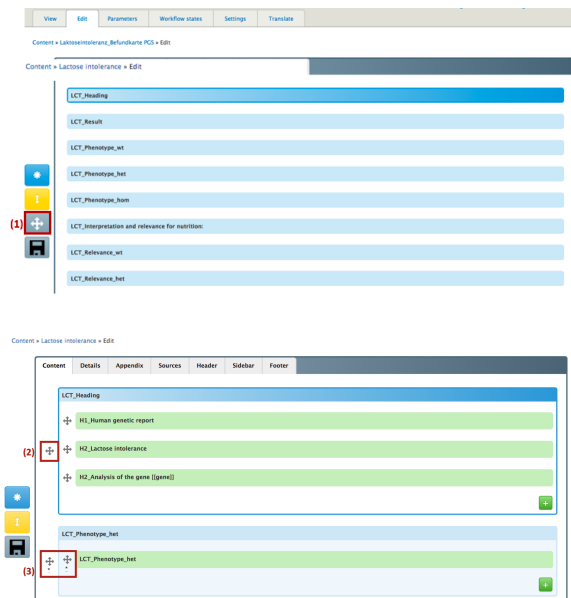
Content Editor

## Within a section

Dragging has to be enabled by clicking on the gray button on the left with the drag symbol (1).

Change the order of the [content boxes](#) within a [section](#) by dragging them (2).

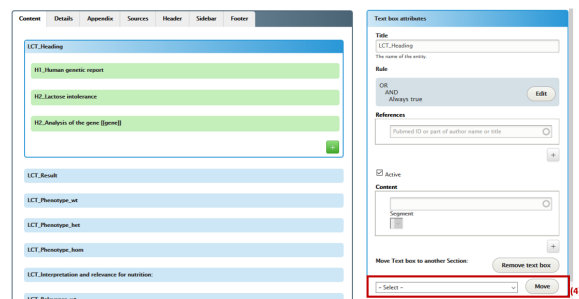
Moved content boxes are marked with an asterisk (3).



## To another section

1. Select the [content box](#) that should be moved.
2. Open the *Content box attributes* box in the right sidebar.
3. Under *Move Content box to another Section*, select the target [section](#) (4).
4. Click *Move*.

Please note: Moving is possible as soon the content element has been saved.



### Possible next steps

- [Adding content elements](#)
- [Editing a content element](#)
- [Setting the rule of a content box](#)
- [Setting an exclusion set to a content box](#)
- [Setting references to a content box](#)
- [Adding a content box to content](#)

# Inactivating a content box

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations > *Edit*

### Other ways:

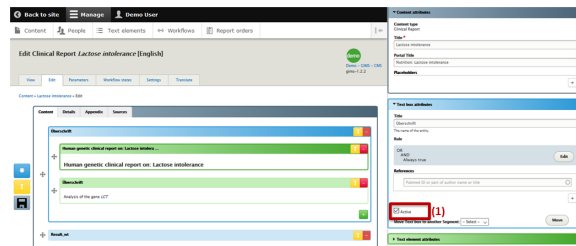
- [Toolbar](#) > Data > Content > Operations: *View* > Edit
- [Toolbar](#) > Data > Content > Operations: [Parameters](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Workflow states](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Settings](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Translate](#) > Edit

## Role

Content Editor

[Content boxes](#) are preset as active and are therefore visible in the [content](#). If a content box should not be used in the content, it must be inactivated by removal of the checkmark in the *Content box attributes* box (1).

To reactivate the content box, set the checkmark again.



## Possible next steps

- [Adding content elements](#)
- [Adding a content box to content](#)

# Setting the rule of a content box

## How to get here

### Default way:

Toolbar > Data > Content > Operations: *Edit*

### Other ways:

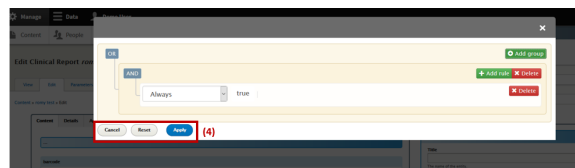
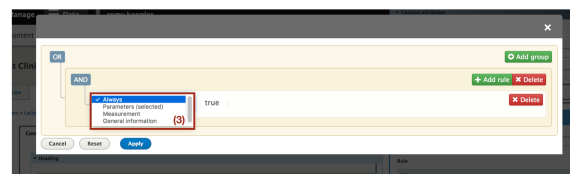
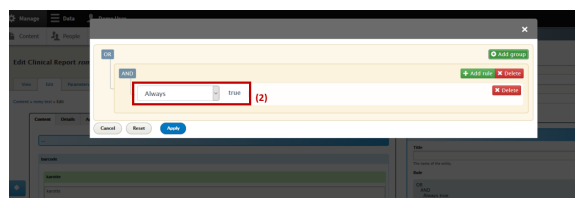
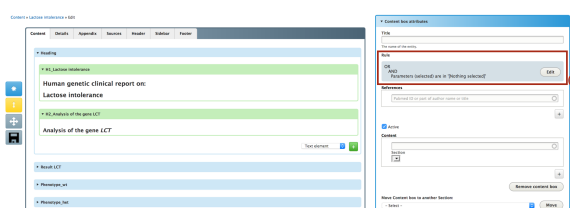
- Toolbar > Data > Content > Operations: *View* > Edit
- Toolbar > Data > Content > Operations: *Parameters* > Edit
- Toolbar > Data > Content > Operations: *Workflow states* > Edit
- Toolbar > Data > Content > Operations: *Settings* > Edit
- Toolbar > Data > Content > Operations: *Translate* > Edit

## Role

Content Editor

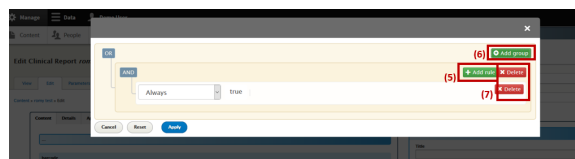
Rules for content boxes are set in the right sidebar, within the *Content box attributes*.

1. Click *Edit* in the gray field (1). The modal window for setting the rule opens.
2. If the content box should be displayed in any case, select *Always true* (2).  
If the content box should be displayed only for certain combinations of *parameters*, select *Parameters (selected)* (3).  
If the content box should be displayed for certain *general information* or *measurements*, click on the corresponding selection (3).  
Please note: rules for parameters, general information and measurements can be combined for a content box.
3. Select the desired operation. For details see [Setting the rule for parameters](#), [Setting the rule for general information](#) or [Setting the rule for measurements](#).  
Click *Apply* to close the modal window using the changes of the rule.  
Click *Reset* to reverse the changes made.  
Click *Cancel* to close the modal window without using the changes of the rule.
4. Click *Apply* to close the modal window using the changes of the rule.



## Further opportunities:

1. Click *Add rule*, if the statement shall be connected with a further statement by *And* (5). Set the new statement as described above.
2. Click *Add group*, if the statement shall be connected with a further statement by *Or* (6). Set the new statement as described above.
3. Click *Delete* to remove the corresponding statement (7).





Please note: if the content box should never be shown, it is also possible to set it inactive, see [Inactivating a content box](#)

**Possible next steps**

- [Adding content elements](#)
- [Editing a content element](#)
- [Moving a content box](#)
- [Setting an exclusion set to a content box](#)
- [Setting references to a content box](#)
- [Adding a content box to content](#)

# Setting the rule for parameters

## How to get here

### Default way:

**Toolbar** > Data > **Content** > Operations: *Edit*

### Other ways:

- **Toolbar** > Data > Content > Operations: *View* > Edit
- **Toolbar** > Data > Content > Operations: *Parameters* > Edit
- **Toolbar** > Data > Content > Operations: *Workflow states* > Edit
- **Toolbar** > Data > Content > Operations: *Settings* > Edit
- **Toolbar** > Data > Content > Operations: *Translate* > Edit

## Role

Content Editor

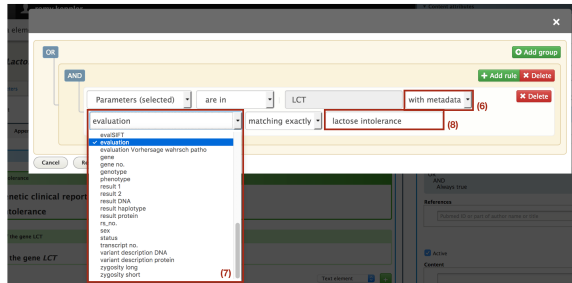
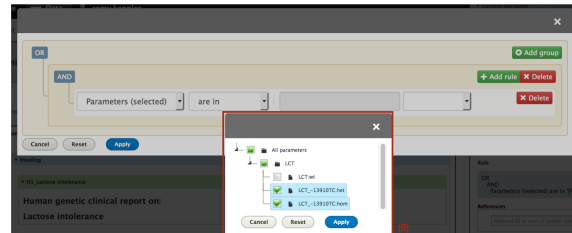
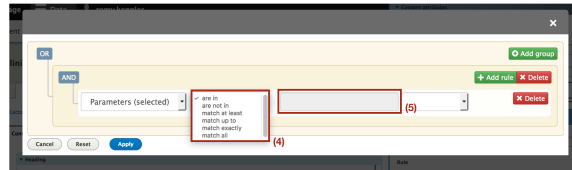
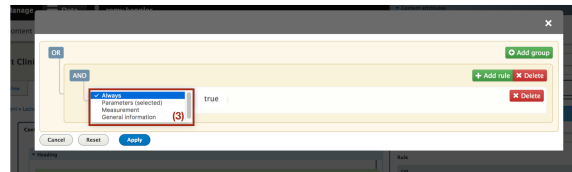
- select *Parameters (selected)* (3)
- select the required operation (4)
- select all classes or parameters (5) from the **parameter tree**, for which the rule applies
- optional: select *with metadata* to set the rule depending on an specific **metadata** (6)
  - select the **metadata field** (7) and the metadata field content (8)

It is recommended that the rules only contain **classes** and no explicit **parameter**. This saves time writing **content** for new parameters, since they only need to be sorted into the appropriate class.

### Example:

If the selected **rule** is *Parameters (selected) are in LCT\_-13910TC:het, LCT\_-13910TC:hom*, the **content box** will be used when one of these specific **parameters** is given.

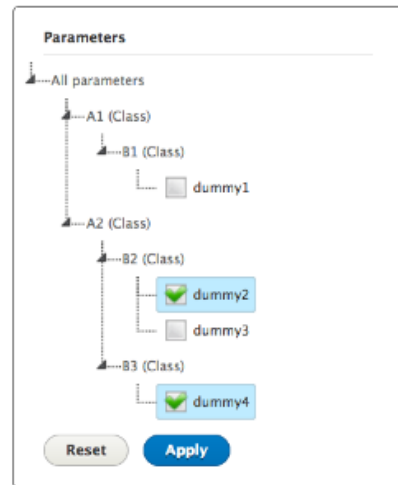
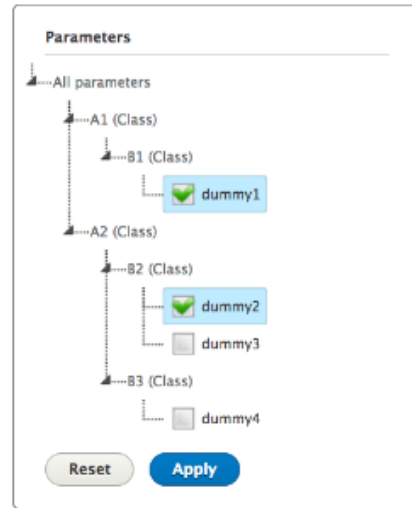
In contrast, if the **rule** *Parameters (selected) are in* is used for a whole **class**, the connected content box will be used if one or more **parameters** are given.



### Example 2:

If the selected **rule** is *Results match exactly 2 parameters of...*

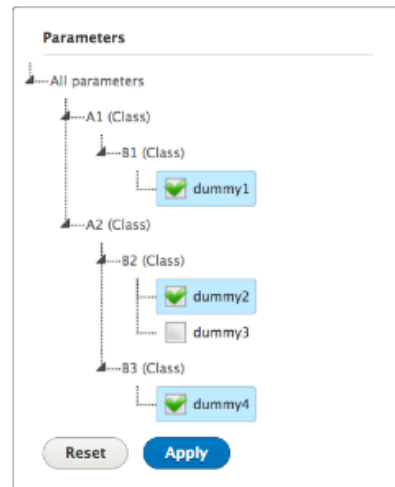
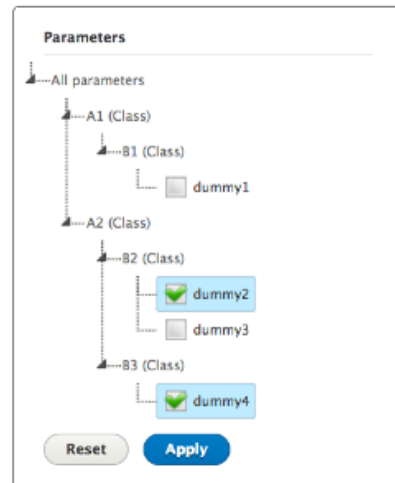
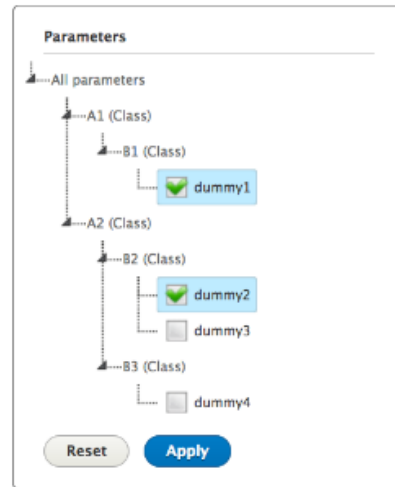
- *class A1 and class A2*, the **content box** will be used when exactly 1 **parameter** is selected within **class** A1 and A2.



Rule is fulfilled

Rule is not fulfilled

- *classes B1, B2 and B3*, the **content box** will be used when exactly 2 **parameters** are selected within these **classes**.



Rule is fulfilled

Rule is not fulfilled

Rule is fulfilled

**Possible next steps**

- Adding content elements
- Editing a content element
- Moving a content box
- Setting an exclusion set to a content box
- Setting references to a content box
- Adding a content box to content



# Setting the rule for general information

## How to get here

### Default way:

**Toolbar** > Data > **Content** > Operations > *Edit*

### Other ways:

- **Toolbar** > Data > Content > Operations: *View* > Edit
- **Toolbar** > Data > Content > Operations: *Parameters* > Edit
- **Toolbar** > Data > Content > Operations: *Workflow states* > Edit
- **Toolbar** > Data > Content > Operations: *Settings* > Edit
- **Toolbar** > Data > Content > Operations: *Translate* > Edit

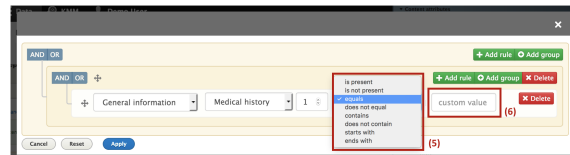
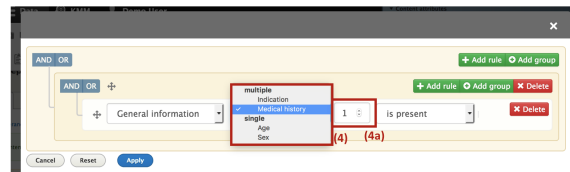
## Role

Content Editor

- select *General information* (3).
- select the name of the desired *general information* (4).  
Optional: Set the index (4a).
- select the required operation (5).
- insert a custom value (6, free-text field)

### Please note:

- If no name is assigned in the settings, the ID number is displayed in the selection.
- General information are sorted in the selection according to their attributes.
  - A distinction is made between general information with single or multiple values. After selection of a multiple general information, a further field appears for selecting the index associated with the desired information (4a).
  - Protected general information are displayed separately. For protected general information only the rules '*is present*' and '*is not present*' are possible. Selecting another function resets the general information field to the first general information on the drop-down menu.
- General information '*Linked to parameter(s)*' can not be considered yet.



### Example:

If the selected **rule** is *General information: Sex equals female*, the **content box** will be used for cases where the proband was defined as female in the LIMS and transferred to the DRM.

If the selected **rule** is *General information: Indication contains carcinoma*, the content box will be used if any cancerous disease is explicitly deposited with the wording *carcinoma* as indication for this case in the LIMS and transferred to the DRM.

#### **Possible next steps**

- [Adding content elements](#)
- [Editing a content element](#)
- [Moving a content box](#)
- [Setting an exclusion set to a content box](#)
- [Setting references to a content box](#)
- [Adding a content box to content](#)

# Setting the rule for measurements

## How to get here

### Default way:

**Toolbar** > Data > **Content** > Operations: *Edit*

### Other ways:

- **Toolbar** > Data > Content > Operations: *View* > Edit
- **Toolbar** > Data > Content > Operations: *Parameters* > Edit
- **Toolbar** > Data > Content > Operations: *Workflow states* > Edit
- **Toolbar** > Data > Content > Operations: *Settings* > Edit
- **Toolbar** > Data > Content > Operations: *Translate* > Edit

## Role

Content Editor

- Select *Measurements* (3).
- Select the name of the desired *measurement* (4).
- Select the required operation (5).
- Select the desired value (6). If the custom value is selected (7) enter the value manually (8).
- Optional: select a percentage, which is used to offset the value (9).

## Please note:

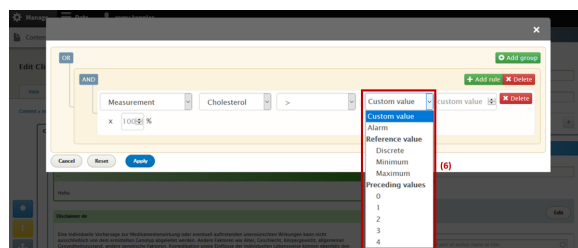
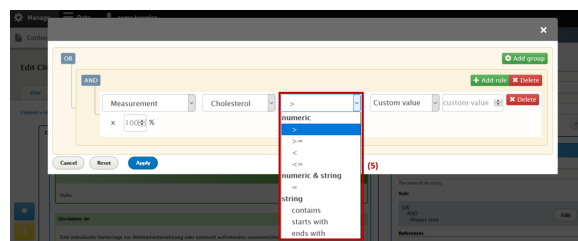
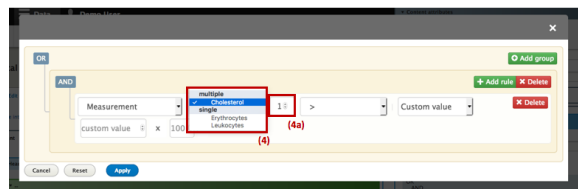
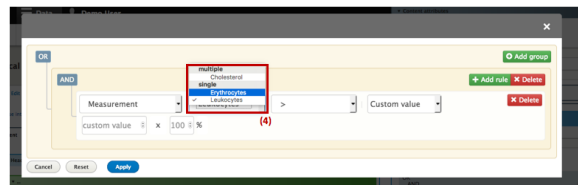
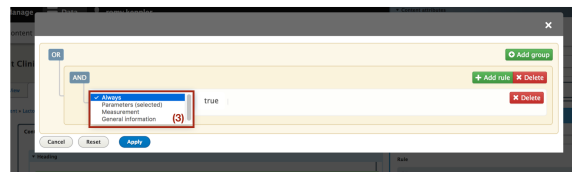
- If no name is assigned in the settings, the ID is displayed in the selection.
- Measurements are sorted in the selection according to their attributes. A distinction is made between measurements with single or multiple values. After selection of a multiple measurement, a further field appears for selecting the index associated with the desired information (4a).
- Measurements *Linked to parameter(s)* can not be considered yet.

## Example:

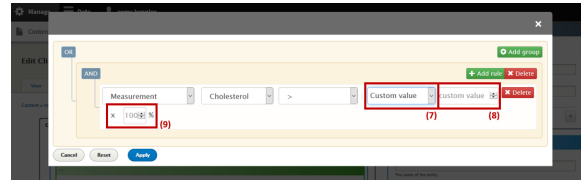
If the selected *rule* is *Measurement: leukocytes > Custom value 30000*, the *content box* will be used for cases where more than 30000 leukocytes are detected indicating a leukaemia.

If the selected *rule* is

- Measurement: cholesterol > Reference value Minimum*, associated via an 'And' connection to
- Measurement: cholesterol < Reference value Maximum*, the *content box* can be used for cases where cholesterol values are within the reference range.







### Possible next steps

- [Adding content elements](#)
- [Editing a content element](#)
- [Moving a content box](#)
- [Setting an exclusion set to a content box](#)
- [Setting references to a content box](#)
- [Adding a content box to content](#)

# Extended rules

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: *Edit*

### Other ways:

- [Toolbar](#) > Data > Content > Operations: *View* > Edit
- [Toolbar](#) > Data > Content > Operations: *Parameters* > Edit
- [Toolbar](#) > Data > Content > Operations: *Workflow states* > Edit
- [Toolbar](#) > Data > Content > Operations: *Settings* > Edit
- [Toolbar](#) > Data > Content > Operations: *Translate* > Edit

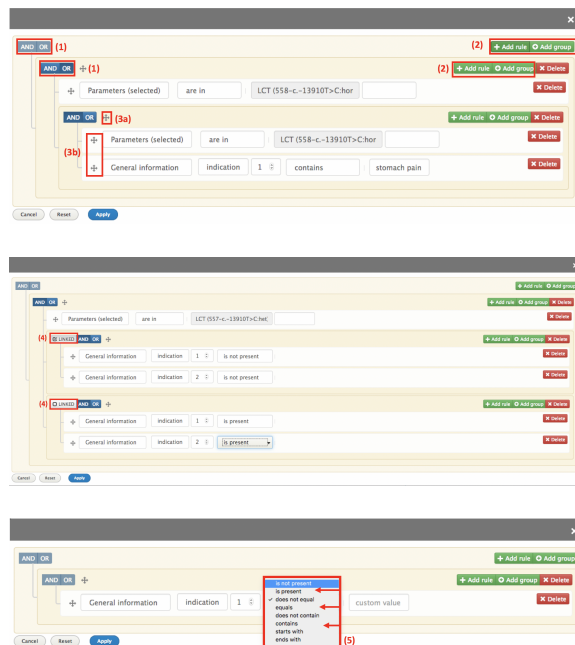
## Role

Content Editor

Rule extensions offer the possibility to display further conditions. They are optional and can be requested at bio. logis Genetic Information Management GmbH.

The following rule extensions are available:

1. AND/ OR linkages can be changed at any time by clicking the button *AND* or *OR* (1). The rule of the darker coloured button is set.
2. Additional single rules or rule groups can be created from the same level. By clicking *Add rule* a new rule is set in the same level. By clicking *Add group* a new rule are set in the same level selectable as AND or OR linkage to the previous rule.
3. Single rules or rule groups can be resorted by dragging on the drag symbol and dropping at the desired position in the rule chain.
4. Additional dependencies can be defined for further variables coupled to parameters by setting the checkmark on the *Linked* tag. By adding a group to a rule for parameters, the option 'Linked' can be selected to link the preceding to the following statements.
5. Further rule operations for general information can be selected to negate statements.



## Possible next steps

- [Adding content elements](#)
- [Editing a content element](#)
- [Moving a content box](#)
- [Setting an exclusion set to a content box](#)
- [Setting references to a content box](#)
- [Adding a content box to content](#)

# Setting an exclusion set to a content box

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations > *Edit*

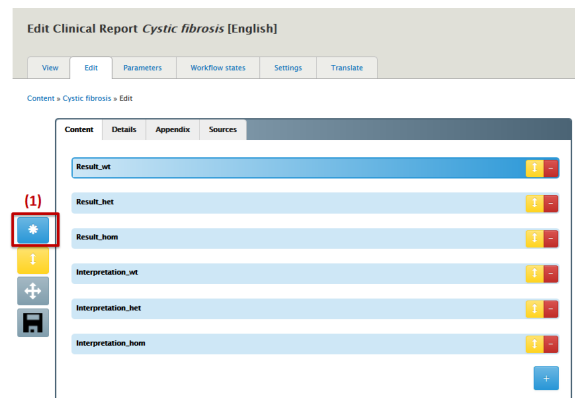
### Other ways:

- [Toolbar](#) > Data > Content > Operations: *View* > Edit
- [Toolbar](#) > Data > Content > Operations: [Parameters](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Workflow states](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Settings](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Translate](#) > Edit

## Role

Content Editor

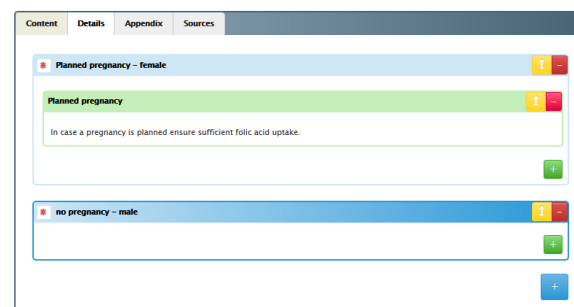
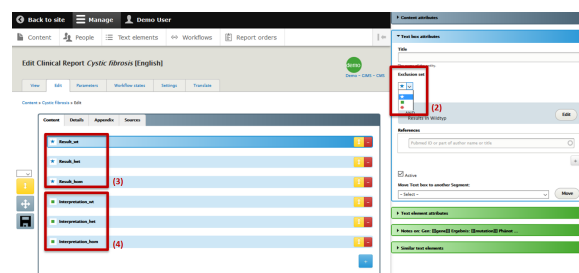
The functionality for viewing and setting exclusion sets has to be enabled by clicking the \* button (1) on the left.



The [exclusion set](#) is set to [content boxes](#) in the right sidebar, within the *Content box attributes*.

1. Open the *Exclusion set* in the dropdown menu (1)
2. At the bottom of the dropdown list, there is always one symbol that has not been used yet and is always free for defining a new exclusion set. Select a symbol, it appears in the empty field of the content box (2).

Example: A typical exclusion set is a set of content boxes that describe different results of genotyping (3). If interpretations of the results are in a new set of content boxes, they are another exclusion set (4).



### Possible next steps

- [Setting the rule of a content box](#)
- [Setting references to a content box](#)
- [Moving a content box](#)
- [Adding content elements](#)
- [Editing a content element](#)
- [Adding a content box to content](#)

# Setting references to a content box

## How to get here

### Default way:

**Toolbar** > Data > **Content** > Operations: *Edit*

### Other ways:

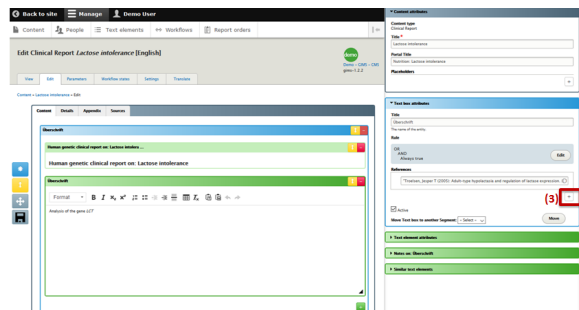
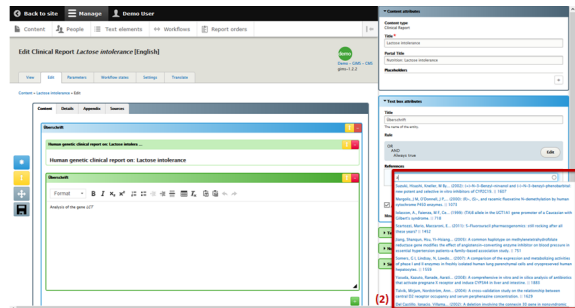
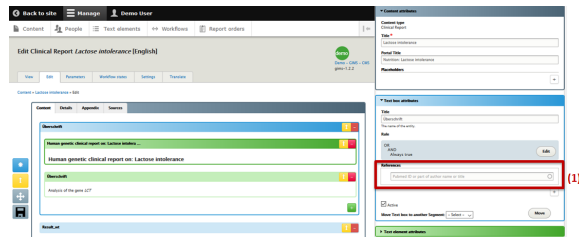
- **Toolbar** > Data > Content > Operations: *View* > Edit
- **Toolbar** > Data > Content > Operations: *Parameters* > Edit
- **Toolbar** > Data > Content > Operations: *Workflow states* > Edit
- **Toolbar** > Data > Content > Operations: *Settings* > Edit
- **Toolbar** > Data > Content > Operations: *Translate* > Edit

## Role

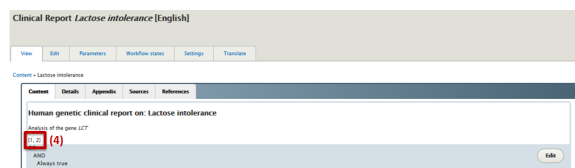
Content Viewer + Content Editor

**References** are set to **content boxes** in the right sidebar, within the *Content box attributes* (1).

1. Type into the autocomplete field the pubmed id or part of author name or title.
2. Select the desired reference from the list of possible references (2).
3. To add more reference, click on the + button (3) and repeat the process.



On the *View* tab only the assigned number of the references is visible following the content box (4). The references are automatically presented at the *References* section (5).





To remove references clear the *References* fields (1) and click *Save*.

The references are no longer linked to the content box.

They are not visible in the [content view](#) then.

### Possible next steps

- [Viewing content](#)
- [Viewing the parameters of the content](#)
- [Viewing the workflow states of the content](#)
- [Editing the settings of the content](#)
- [Translating the content](#)

# Content elements

# Viewing content elements

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > *Edit* > content element

## Role

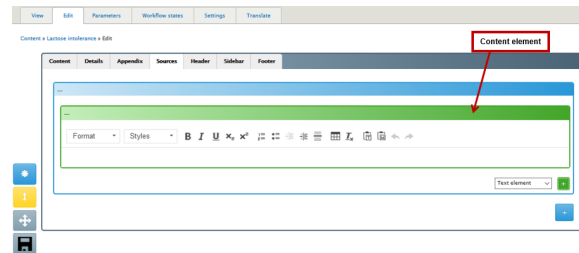
Content Viewer

## Inside the content

On the *Edit* tab [text](#), [media](#) and [barcode elements](#) are visualized by a green frame.

Please note:

Translation elements cannot be used in the content form. They are displayed at the [Translation elements overview](#).



## Possible next steps

- [Adding content elements](#)
- [Viewing content elements](#)
- [Editing a content element](#)
- [Translating content elements](#)



# Text elements overview

## How to get here

### Default way:

[Toolbar](#) > Data > [Text elements](#)

## Role

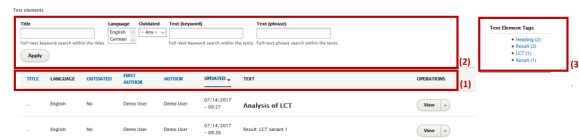
Content Viewer

The list shows every existent [text element](#) in the DRM. The following information is displayed (1)

- title
- language: if a text element exists in more than one language, each language is listed separately
- [outdated](#): status to indicate whether a text element needs to be updated
- first author: [user](#) who created the text element
- author: [user](#) who made the last saving
- updated: time point of last saving
- text (full-text)
- operations

The list can be filtered by the *Title*, the *Language* and the *Outdated status*. The text can be searched either for keywords or phrases (2). The entries can also be filtered by their tags (3). The search results are highlighted.

The list can be sorted by clicking on the corresponding title (available for title, outdated, first author, author and updated).



## Possible next steps

- [Adding content elements](#)
- [Viewing content elements](#)
- [Editing a content element](#)
- [Translating content elements](#)

# Media elements overview

## How to get here

### Default way:

[Toolbar](#) > Data > [Media elements](#)

## Role

Content Viewer

The list shows every existent [media element](#) in the DRM.  
The following information is displayed (1)

- title
- language: if a media element exists in more than one language, each language is listed separately
- **outdated**: status to indicate whether a media element needs to be updated
- first author: [user](#) who created the media element
- author: [user](#) who made the last saving
- updated: time point of last saving
- text: caption of the media element
- operations

The list can be filtered by the *Title*, the *Language* and the *Outdated status*. The text can be searched either for keywords or phrases (2). The entries can also be filtered by their tags (3). The search results are highlighted.

The list can be sorted by clicking on the corresponding title (available for title, outdated, first author, author and updated).

Media elements

Language: English German
Outdated: - Any -
Text (keyword): 
Text (phrase):

Full-text keyword search within the titles. Full-text keyword search within the texts. Full-text phrase search within the texts.

Media Element Tags

No Results

TITLE	LANGUAGE	OUTDATED	FIRST AUTHOR	AUTHOR	UPDATED	TEXT	OPERATIONS
Screenshot	English	No	Demo User	Demo User	07/14/2017 ~ 09:19	Screenshot	<a href="#">View</a>
Screenshot1	English	No	Demo User	Demo User	07/14/2017 ~ 09:19	Screenshot1	<a href="#">View</a>

## Possible next steps

- [Adding content elements](#)
- [Viewing content elements](#)
- [Editing a content element](#)
- [Translating content elements](#)

# Translation elements overview

## How to get here

### Default way:

[Toolbar](#) > Data > [Translation element](#)

## Role

Content Viewer

The list shows every existent [Translation element](#) in the DRM. The following information is displayed (1)

- title
- language: if a translation element exists in more than one language, each language is listed separately
- [outdated](#): status to indicate whether a translation element needs to be updated
- first author: [user](#) who created the translation element
- Last author: [user](#) who made the last saving
- updated: time point of last saving
- text (full-text)
- operations

The list can be filtered by the *Keywords*, the *Language* and the *Outdated status* (2). Additional filtering is possible by *Tags* or *Last author* within *More filters* (3). The search results are highlighted.

The list can be sorted by clicking on the corresponding title (available for title, language, outdated, first author, author and updated).

Title	Language	Outdated	First author	Last author	Updated	Text	Operations
Native Resources	German	Yes	translation_author	Report order processor	01/05/2018 14:01	Native Resources	View Edit
Higher resources	English	No	translation_author	Report order processor	01/05/2018 14:01	Higher resources	View Edit

## Possible next steps

- [Viewing content elements](#)
- [Editing a content element](#)

# Viewing a text element

## How to get here

### From text elements overview

[Toolbar](#) > Data > [Text elements](#) > title

### Within content

[Toolbar](#) > Data > [Content](#) > [Edit](#) > text element

## Role

Content Viewer

There are two options to view text elements

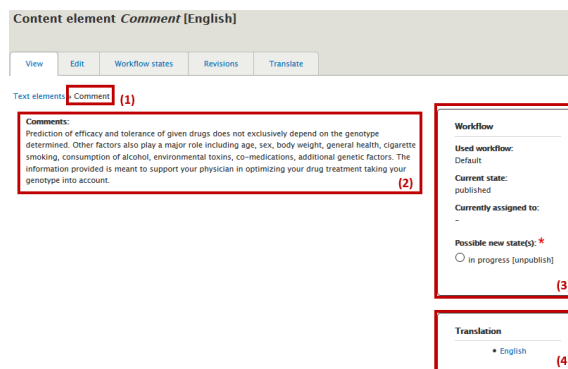
- from the [text elements overview](#) list
- on the edit tab within a specific content

## From text elements overview

Select the [text element](#) and click on *View*. The content title (1) and the content is shown on the left side (2).

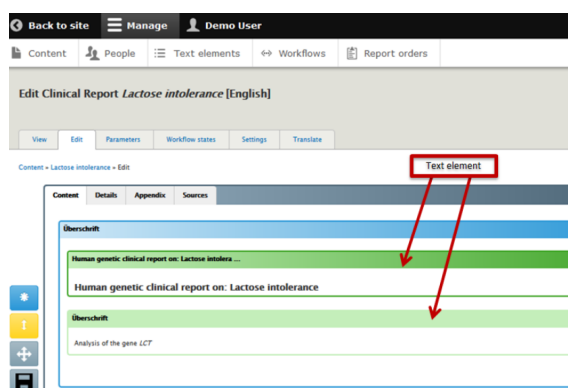
On the right side the publishing workflow is described with its current state and assignee. The current state for this text element can be changed here (3).

The available languages of this text element are displayed in the box *Translation* (4).



## Within content

On the *Edit* tab text elements are visualized by a green frame.



## Possible next steps

- [Adding content elements](#)
- [Viewing content elements](#)
- [Editing a content element](#)
- [Translating content elements](#)

# Viewing a media element

## How to get here

### From media elements overview

[Toolbar](#) > Data > [Media elements](#) > title

### Within content

[Toolbar](#) > Data > [Content](#) > [Edit](#) > media element

## Role

Content Viewer

There are two options to view media elements

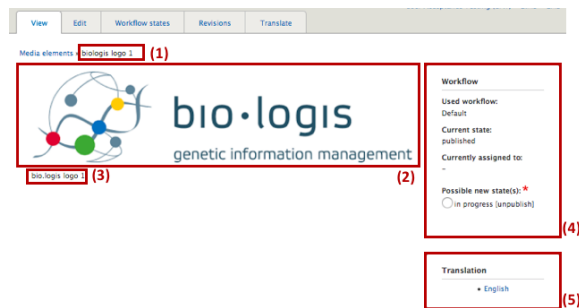
- from the [media elements overview](#) list
- on the edit tab within a specific content

## From the media elements overview

Select the [media element](#) and click on *View*. The title (1), the content (2) and the caption (3) of the media element is shown on the left side.

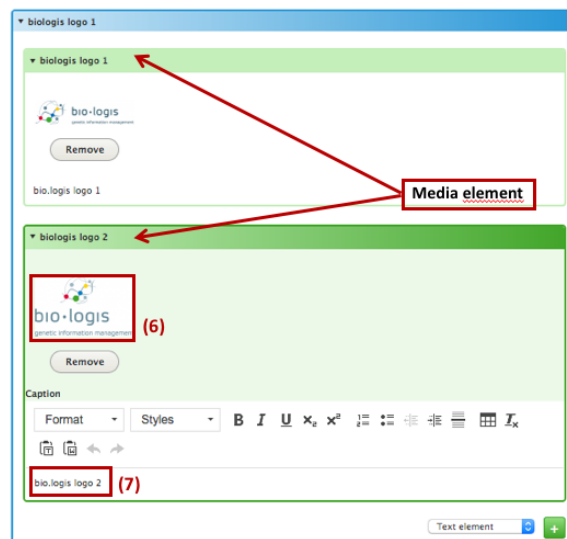
On the right side the publishing workflow is described with its current state and assignee. The current state for this content element can be changed here (4).

The available languages of this media element are deposited in the box *Translation* on the right (5).



## Within content

On the *Edit* tab media elements are visualized by a green border. The image (6) and the caption (7) are displayed and can be edited here.



#### **Possible next steps**

- [Adding content elements](#)
- [Viewing content elements](#)
- [Editing a content element](#)
- [Translating content elements](#)

# Viewing a translation element

## How to get here

### From translation elements overview

[Toolbar](#) > Data > [Translation element](#) > title

## Role

Content Viewer

There is one option to view translation elements

- from the [Translation elements overview](#) list

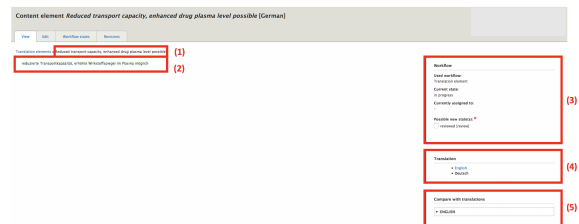
## From translation elements overview

Select the [translation element](#) and click on *View*. The content title (1) and the content is shown on the left side (2).

On the right side the publishing workflow is described with its current state and assignee. The current state for this translation element can be changed here (3).

The available languages of this translation element are displayed in the box *Translation* (4).

Comparing different translations is possible in box *Compare with translations* (5).



## Possible next steps

- [Viewing content elements](#)
- [Editing a content element](#)

# Adding content elements

## How to get here

### Default way:

**Toolbar** > Data > **Content** > Operations: *Edit*

### Other ways:

- **Toolbar** > Data > Content > Operations: *View* > Edit
- **Toolbar** > Data > Content > Operations: *Parameters* > Edit
- **Toolbar** > Data > Content > Operations: *Workflow states* > Edit
- **Toolbar** > Data > Content > Operations: *Settings* > Edit
- **Toolbar** > Data > Content > Operations: *Translate* > Edit

## Role

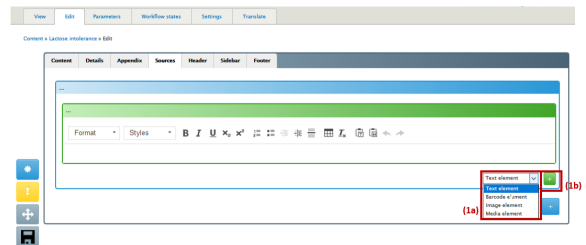
Content Editor

Within the **content**, the content elements are located within **content boxes** which combine several text, barcode or media elements with additional information.

In order to add a content element, the corresponding **content box** has to be opened.

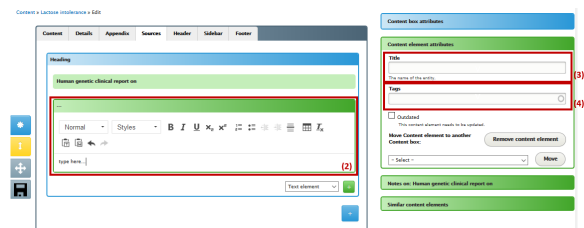
## Adding a new content element

- select the type of content element: **text element**, **barcode element**, **media element** (1a)
- click the + at the bottom of the **content box** (1b).
- an empty content element appears (2)
- optional: Enter a title for the content element under *Content element attributes* (3) and/or mark it with **tags** (4) in the right sidebar.



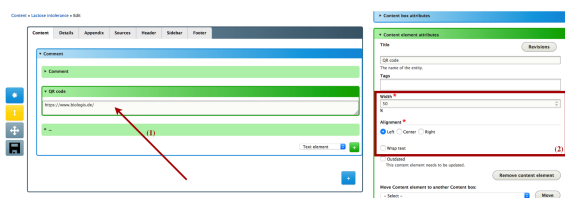
## Filling a text element

- type the text into the text element
- optional: use **text editor features** to style the text. Please note: these formats do not represent the final layout. they merely mark parts of the text for the definition of a layout.
- save



## Filling a barcode element

- type the text into the barcode element, which is to be encrypted to a QR code (1)
- optional: include general **placeholders** (iterative and flexible placeholders are not supported)
- optional: change the size in which the QR code is displayed in the context (in percent)(2). The width of QR codes in the delivered PDF and ODT documents will be shown in percentage of the section page. Decide on a position where the





QR code should appear in the content and whether it should be flowed around by the following content element.

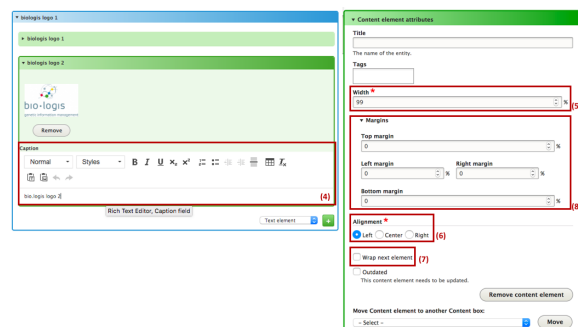
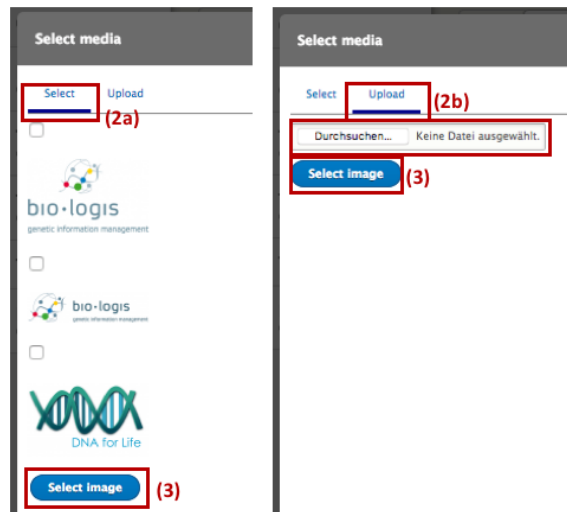
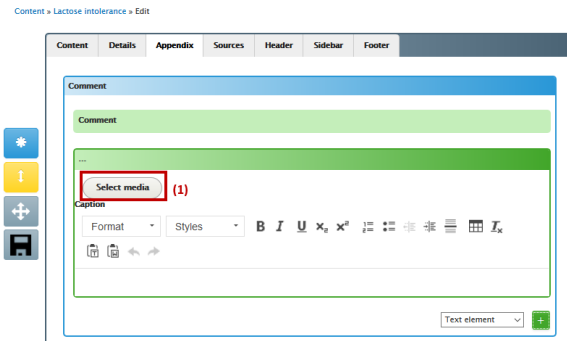
- save

## Filling a media element

- click *Select media* (1). A modal window opens.
- select an existing image (2a) or upload a new image (2b).
- Assisted formats are .jpg and .png.
- click *Select image* (3). The modal window closes. The desired image is displayed in the media element.
- optional: enter a caption (4). Use [text editor features](#) to style the text. Placeholders (general, iterative and flexible) are not supported.
- optional: change the size in which the image is displayed in the context (in percent)(5). The width of images in the delivered PDF and ODT documents will be shown in percentage of the section page.
- optional: decide on a position where the image should appear in the content(6).
- optional: decide whether the media element should be flowed around by the following content element (7).
- optional: select margins around the image (8).
- save.

Please note:

- [Translation elements](#) cannot be added manually. They are created automatically when queried by a report order.



### Possible next steps

- [Editing a content element](#)
- [Text editor features](#)
- [Moving a content element](#)
- [Adding notes to content elements](#)

# Adding an existing content element

## How to get here

### Default way:

**Toolbar** > Data > Text/Media elements *and*  
**Toolbar** > Data > **Content** > Operations: *Edit*

### Other ways:

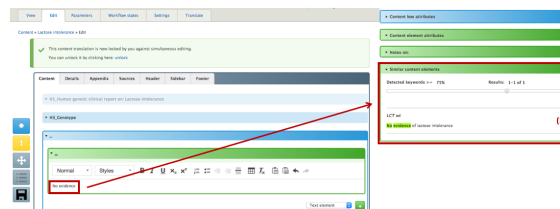
- **Toolbar** > Data > *Text/Media elements* > Operations: *View* > *Edit*
- **Toolbar** > Data > Content > Operations: *View* > *Edit*
- **Toolbar** > Data > Content > Operations: *Parameters* > *Edit*
- **Toolbar** > Data > Content > Operations: *Workflow states* > *Edit*
- **Toolbar** > Data > Content > Operations: *Settings* > *Edit*
- **Toolbar** > Data > Content > Operations: *Translate* > *Edit*

## Role

Content Editor

## Similar content elements

Similar **content elements** are displayed automatically in the sidebar while a content element is edited (1). This serves as an assistance to remember already existing content elements in the DRM instance. It is recommended not to duplicate but to reuse the same elements. Similar elements can also be used as a template for further processing.

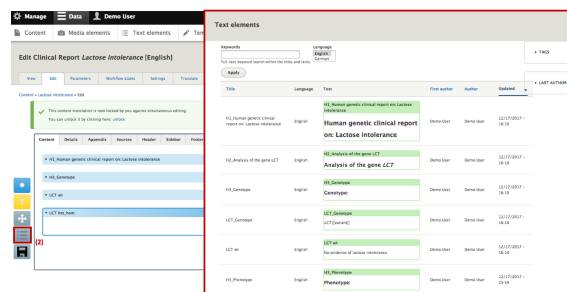


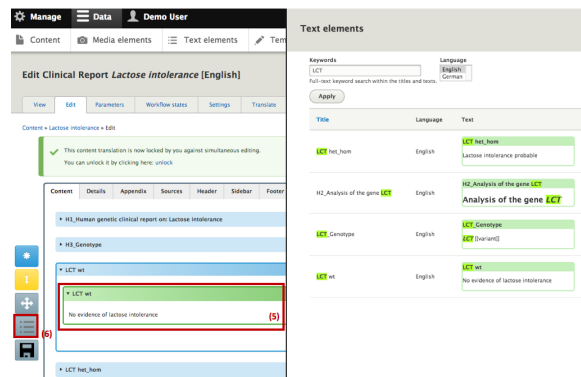
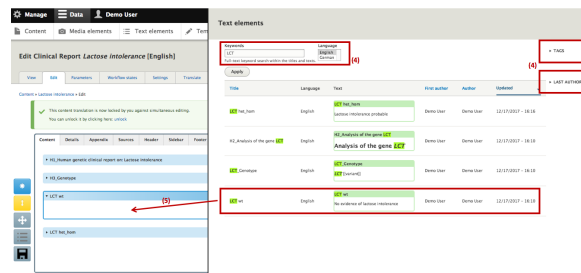
### Please note:

- independently of the type of the content element, all elements containing similar context are displayed in the *Similar content elements* box
- media elements can be found by selecting the same image
- **Translation elements** cannot be added or reused. They are created automatically.

## Reuse text elements

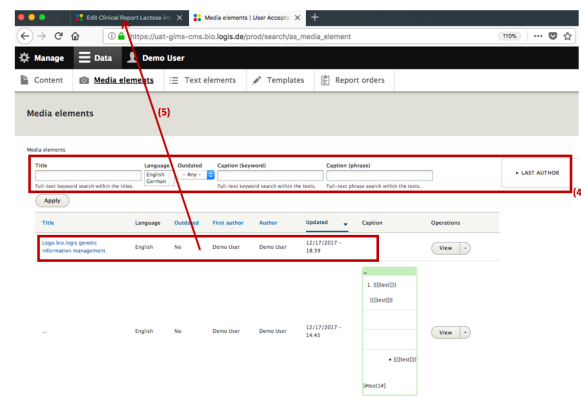
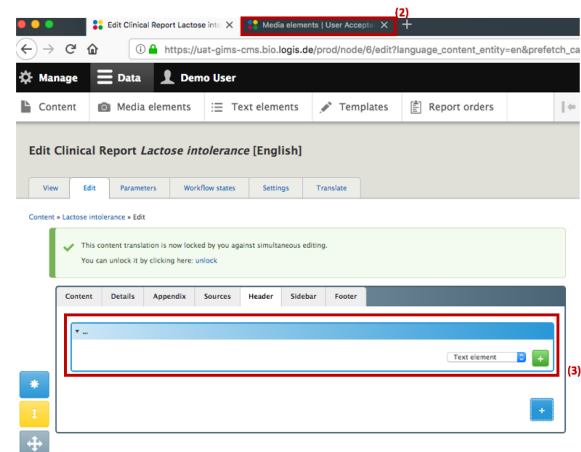
- click on the gray button on the left with the bullet point list symbol (2)
- an overlay window including all text elements opens (3)
- optional: use the filtering options to find the desired text element (4)
- click on the desired text element in the overview and drag it into the **content box** (5)
- click again on the gray button on the left with the bullet point list symbol to close the overlay window (6)

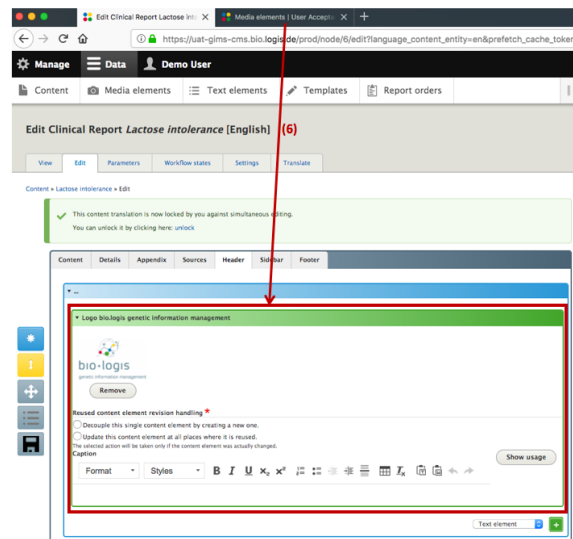




## Reuse media elements

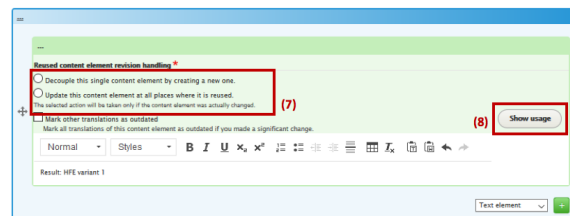
- while editing within a content, open the [media elements overview](#) in another tab of the web browser (2)
- optional: open a new content box (3)
- select to the media elements overview
- optional: use the filtering options to find the desired text element (4)
- click on the media element in the overview and drag it into the [content box](#) on the Edit tab (5,6)





## Optional: Processing of reused content elements

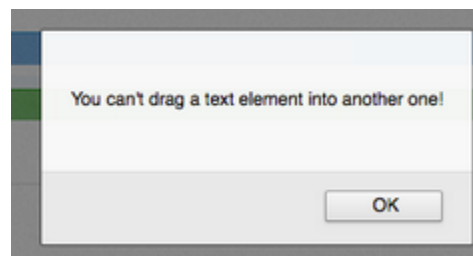
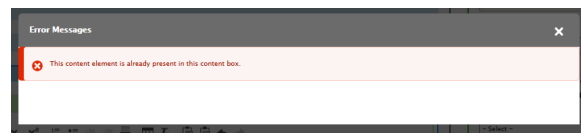
- if changes are necessary decide to (7)
  - decouple: the element is no longer linked to the existing element used in other contents.
  - update: changes are saved for all contents where this element is used.
- Click on *Show usage* to see in which content the content element is also used to make the decision easier (8)
- save



Please note:

- **Translation elements** cannot be added manually. They are created automatically when queried by a report order or a KMM placeholder is replaced.
- If the content element is already present in the content box, it cannot be added a second time. A modal window with the corresponding message opens.
- A content element can not be dragged into the text editor of another text element.

In these cases, an error message is displayed.



### Possible next steps

- [Text elements overview](#)
- [Media elements overview](#)
- [Removing content elements from content](#)
- [Editing a content element](#)
- [Moving a content element](#)
- [Adding notes to content elements](#)

# Editing a content element

How to get here

Default way:

[Toolbar](#) > Data > [Content](#) > *Edit* > content element

**Role**

Content Editor

## Inside the content

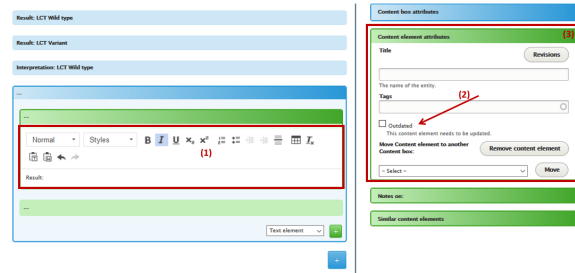
- select the content element
- make changes in the content element (1)
- save

Please note:

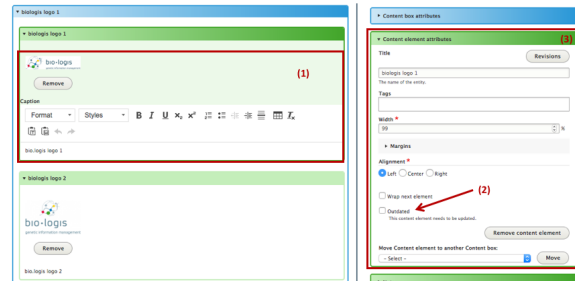
- If the content element has translations into other languages, they can be marked as [outdated](#) (2).
- [Translation elements](#) cannot be edited inside the content. For editing directly in the translation element see [Editing a translation element](#).

Changes can be processed in the *Content element attributes* box in the right sidebar (3).

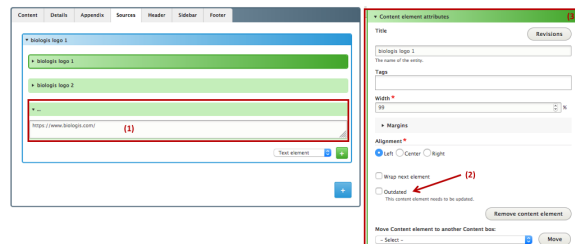
### Text element



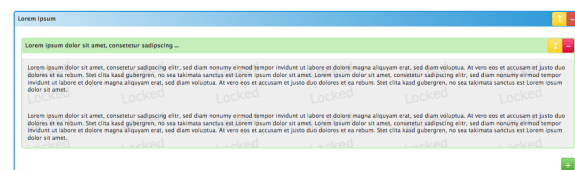
### Media element



### Barcode element



Content elements imported from an outside source are marked as locked and protected against editing. Translations of these content elements that are not imported but maintained inside the GIMS CMS may still be editable.



#### **Possible next steps**

- [Viewing content elements](#)
- [Translating content elements](#)
- [Moving a content box](#)
- [Adding notes to content elements](#)

# Editing a text element

## How to get here

### From text elements overview

[Toolbar](#) > Data > [Text elements](#) > title > *Edit*

### Within content

[Toolbar](#) > Data > [Content](#) > *Edit* > text element

## Role

Content Editor

There are two options to edit text elements

- from the [text elements overview](#) list
- on the edit tab within a specific content

## From text elements overview

Select the [text element](#) and click *Edit*.

The following changes can be made (optional):

1. Modify the title
2. Set or remove [tags](#)
3. Modify the text
4. Change the [outdated](#) state to mark this text element. In case the text element has translations, the option *Mark other translations as outdated* appears.

After modifying the content or the display of the text element it has to be defined how the changes will be applied (obligatory):

5. After finishing the modifications the [change class](#) has to be selected
6. Decouple or update this text element in all other contents. Click *Show usage* to see other contents where it is used

The *Compare revisions* box in the right sidebar facilitates comparing texts (7).

Click *Save*.

The screenshot shows the 'Edit content element H2\_Genotype [English]' interface. It features a top navigation bar with tabs: 'View', 'Edit', 'Workflow states', 'Revisions', and 'Translate'. Below this, the breadcrumb 'Text elements > H2\_Genotype > Edit H2\_Genotype' is visible. The main editing area is divided into several sections, each highlighted with a red box and a number: (1) 'Title' with a text input field containing 'H2\_Genotype'; (5) 'Classifying the change' with a dropdown menu; (2) 'Tags' with a text input field and a search icon; (6) 'Reused content element revision handling' with two radio buttons and a 'Show usage' button; (3) 'Text' with a rich text editor showing 'Genotype:'; (4) 'Outdated' with a checkbox and the text 'This content element needs to be updated.'; and (7) 'Revisions' sidebar with a 'Compare revisions' button. A 'Save' button is located at the bottom left.

## Within content

Text modifications are possible on the *Edit* tab. For details see [Editing a content element](#).



### Possible next steps

- [Viewing content elements](#)
- [Editing a content element](#)
- [Translating content element](#)
- [Moving a content box](#)
- [Adding notes to content elements](#)

# Editing a media element

## How to get here

### From media elements overview

[Toolbar](#) > Data > Media elements > title > *Edit*

## Role

Content Editor

There are two options to edit media elements

- from the [media elements overview](#) list
- on the edit tab within a specific content

## From media elements overview

Select the media element and click on *Edit*.

The following changes can be made (optional):

1. Modify the title
2. Set or remove [tags](#)
3. Remove the image of this [media element](#). The possibility to insert a new picture is given.
4. Decouple or update this media element in all other contents. Click *Show usage* to see other contents where it is used
5. Modify the caption
6. Change the size, margins or alignment of the displayed image and decide if the text should wrap the image (not selectable for the center setting). Modifications are assigned in all existing translations.
7. Change the [outdated](#) state to mark this media element and/or its translations. In case the media element has translations, the option *Mark other translations as outdated* appears.

The *Compare revisions* box in the right sidebar facilitates comparing texts (9).

Click *Save*.

Media elements > biologis logo 1 > Edit

Title: biologis logo 1 (1)

Tags: The name of the entry (2)

Remove (3)

Reused content element revision handling \*

☐ Decouple this single content element by creating a new one.

☐ Update this content element at all places where it is reused.

The selected action will be taken only if the content element was actually changed.

Show usage (4)

Caption

Normal Styles B I U X<sub>2</sub> X<sup>2</sup> (5)

div p

Width \* 45 %

MARGINS

Top margin 0 %

Left margin 0 % Right margin 0 %

Bottom margin 0 %

Alignment \*

☒ Left ☐ Center ☐ Right

☐ Wrap next element

☒ Outdated (6)

This content element needs to be updated. (7)

Save

## Within content

Text modifications are possible on *Edit* (5). For details see [Editing a content element](#), [Adding content elements](#)

### Possible next steps

- [Viewing content elements](#)
- [Editing a content element](#)
- [Translating content elements](#)
- [Adding content elements](#)
- [Moving a content box](#)
- [Adding notes to content elements](#)

# Editing a translation element

## How to get here

From translation elements overview

[Toolbar](#) > Data > [Translation elements](#) > title > *Edit*

## Role

Content Editor

There is one option to edit translation elements

- from the [Translation elements overview](#) list

## From translation elements overview

Select the [translation elements](#) and click *Edit*.

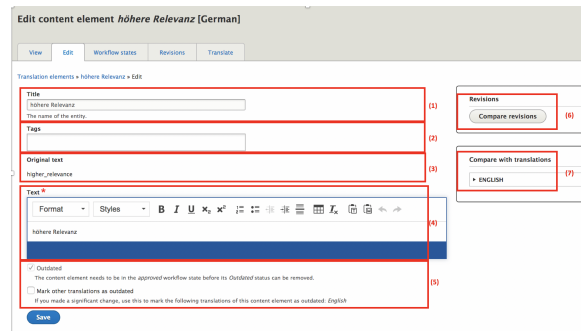
The following changes can be made (optional):

1. Modify the title
2. Set or remove [tags](#)
3. View original text
4. Modify the text
5. Change the [outdated](#) state to mark this text element. In case the text element has translations, the option *Mark other translations as outdated* appears

The *Compare revisions* box in the right sidebar facilitates comparing texts (6).

The *Compare with translations* box in the right sidebar facilitates comparing content of different translations (7).

Click *Save*.



## Possible next steps

- [Viewing content elements](#)
- [Editing a content element](#)

# Text editor features

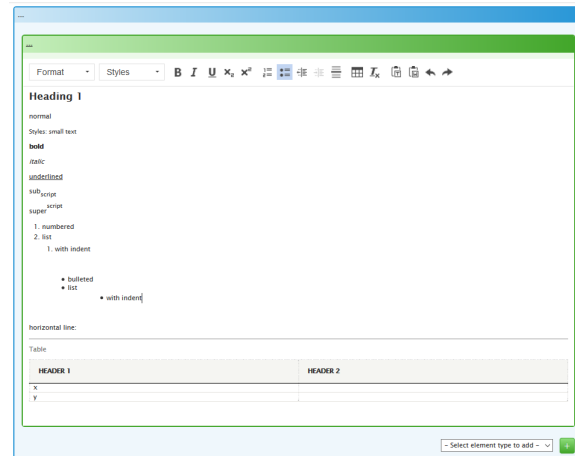
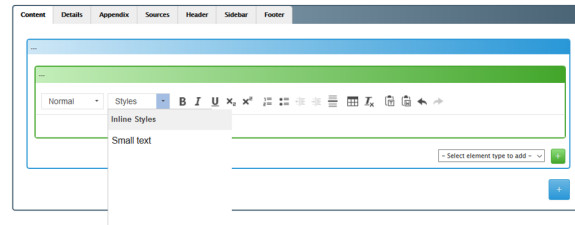
The following features exist for editing text

- [Formats](#)
- [Styles](#)
- Bold
- Italic
- Underlined
- Subscript
- Superscript
- [Lists](#) (numbered, bulleted, indents)
- Horizontal line
- [Tables](#)
- [Remove format](#)
- [Paste options](#)
- Undo
- Redo

Hover over the symbols of the text editor to see their description.

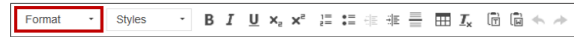
Please note:

- these formats do not represent the final layout. they merely mark parts of the text for the definition of a layout
- different styles can be applied on the same text phrase



# Formats

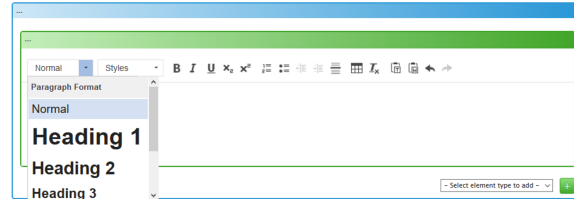
Click on the *Format* panel to select the [format](#).



The following [format](#) exists for editing text

- Normal
- Heading 1 to 6

Each [content element](#) may contain one format only. A content element may not contain normal text together with a headline or several different headline types.



For the order of headings the following rules needs to be taken into account:

- 1) The [content](#) starts with heading 1.
- 2) Each [section](#) starts with heading 1 or heading 2.
- 3) The order of heading formats must not skip a hierarchy level. For example, heading 3 may not be defined if heading 2 is not used previously on the same section. Otherwise there will be a [warning](#) about *incorrect headings* on the [content view](#) (see [troubleshooting](#) for more information).

# Styles

Mark the text and select styles **bold**, *italic*, underline in the bar.

On the *Styles* panel further styles exist:

- small text
- any **custom style** that has been **configured** by the administrator.

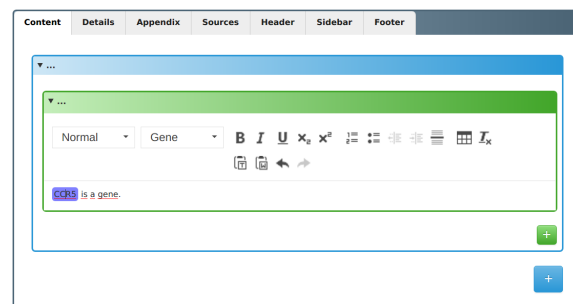
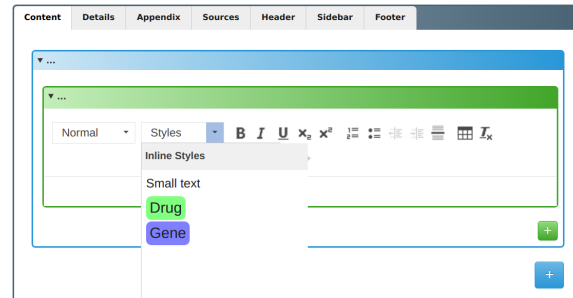
Styles can be applied to a single word or to text phrases.

1. Mark the phrase in the text that should be subject to a custom style.
2. Click on the desired custom style in the dropdown menu of Styles.
3. Click *Save*.

The custom style will now be displayed in the *Edit* and *View* mode.

Please note:

For changing the custom styles, the previous style must be deactivated first. For this purpose click on the custom style in the drop down menu styles once more.



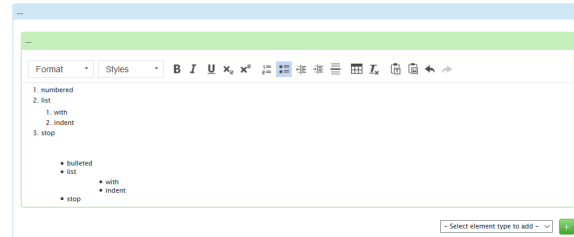
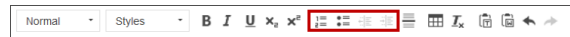
# Lists

It is possible to choose between numbered and bulleted lists.

To start a list click on the list symbol and a number/bullet appears. Insert your text and press Enter - the list is continued automatically.

Both list types allow to increase and decrease indents.

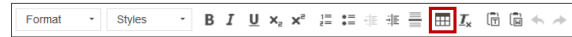
To end the list press Enter two times.





# Tables

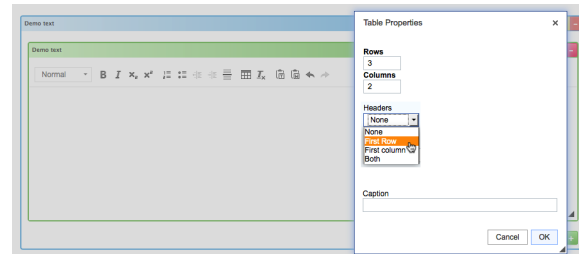
To insert a table click on the table symbol.



In the first step the following table properties can be defined

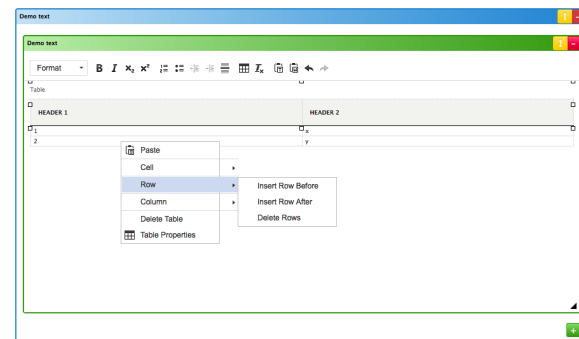
- Number of rows
- Number of columns
- Headers
- Caption

Click *OK* to create the table.



With a right-click on the table an extended properties menu opens, containing actions per

- Cell
  - Insert cell before or after
  - Delete cell(s)
  - Cell properties (width, height, word wrap, alignment, etc.)
- Row
  - Insert row before or after
  - Delete row(s)
- Column
  - Insert column before or after
  - Delete column(s)



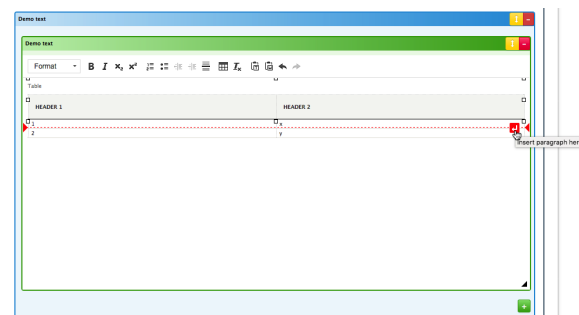
in addition with the following options

- Paste
- Delete table
- Table properties (mentioned above)

To insert text before or after a table, a paragraph needs to be inserted first.

To insert this paragraph, select the table and hover over either the top or the bottom of it.

A white arrow on red background will appear. Click on the arrow to insert the paragraph.



Please note:

Not filled table rows are not visible on View, in the preview and the delivered document.

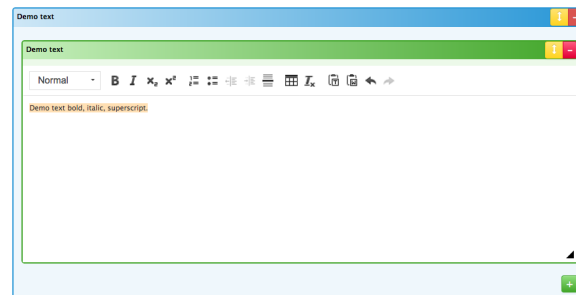
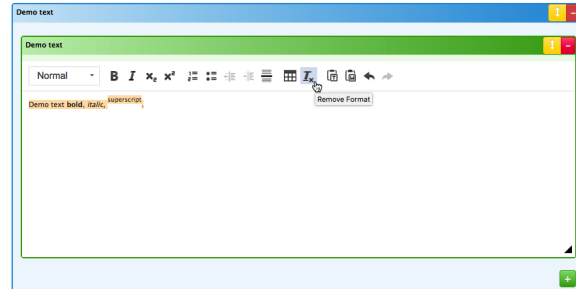
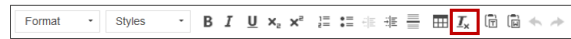
## Information

At present, it is not possible to merge cells within tables, even though such actions exist for cells within the extended menu. We apologize for the inconvenience and go on working on a solution.






# Remove format

Use the *Remove format* option to convert text with different formats to unformatted text with one click.



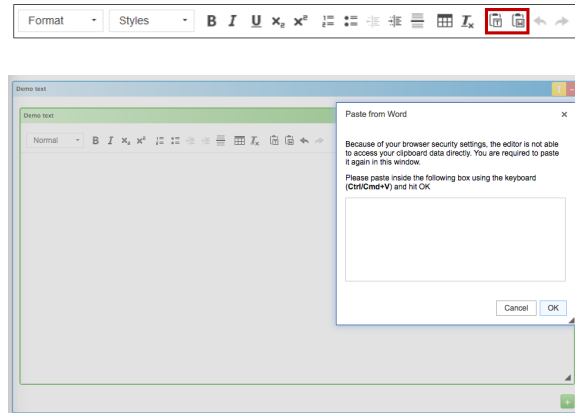
# Paste options

The following paste options exist

- Paste as plain text 
- Paste from Word 
- Right-click > Paste 
- Key combination (e.g. Ctrl+V for Windows, Cmd+V for Mac)

To paste formatted text as unformatted text use the *Paste as plain text* option. All other options should preserve the format of the copied text, as far as the editor is able to represent the formatting.

If a window appears, paste the text per key combination and click on *OK*.



# Editing an existing content element

## How to get here

### Default way:

**Toolbar** > Data > Text/Media elements *and*  
**Toolbar** > Data > **Content** > Operations: *Edit*

### Other ways:

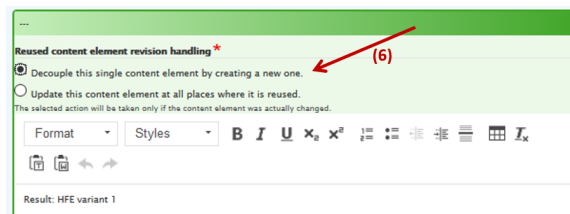
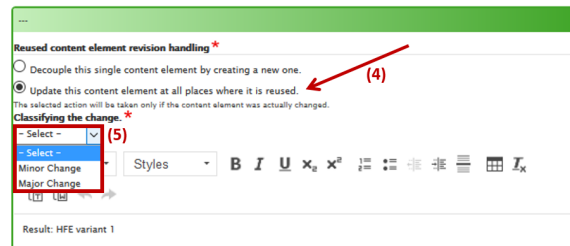
- **Toolbar** > Data > *Text/Media elements* > Operations: *View* > *Edit*
- **Toolbar** > Data > Content > Operations: *View* > *Edit*
- **Toolbar** > Data > Content > Operations: *Parameters* > *Edit*
- **Toolbar** > Data > Content > Operations: *Workflow states* > *Edit*
- **Toolbar** > Data > Content > Operations: *Settings* > *Edit*
- **Toolbar** > Data > Content > Operations: *Translate* > *Edit*

## Role

Content Editor

If the **content element** is reused, make changes (see [Editing a content element](#)) and select how the modifications have to be applied. There are two options:

1. *Update this content element at all places where it is reused*  
 Should be selected if the modification needs to be updated globally in all contents, for example if a spelling mistake was corrected or an expression was updated (4). The **change class** of the content element modification has to be set (5).
2. *Decouple this single content element by creating a new one*  
 Should be selected if the modified content element is used only at the current position, for example when the interpretation of a parameter is changed only for this **content**. The content element will not be changed in any other content (6).

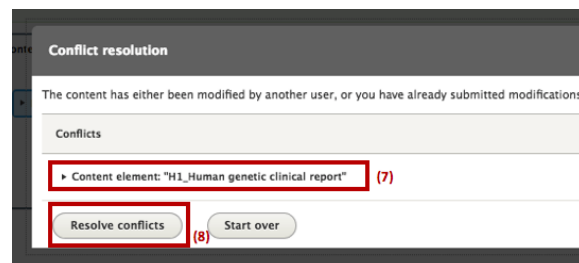


## Concurrent editing

In case two users change the same **content element** in two different contents at the same time, saving modifications by the first user will be unproblematic. Saving changes by the second user will create conflicts if the modifications are not the same.

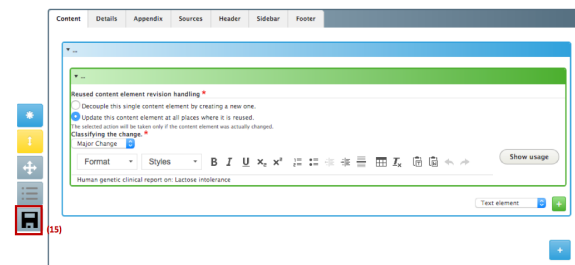
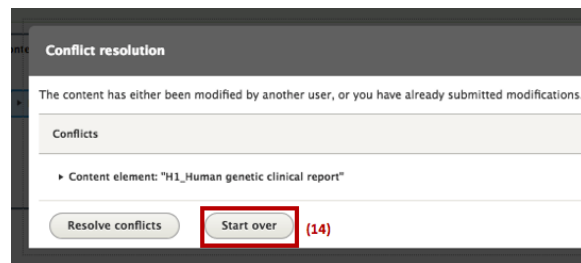
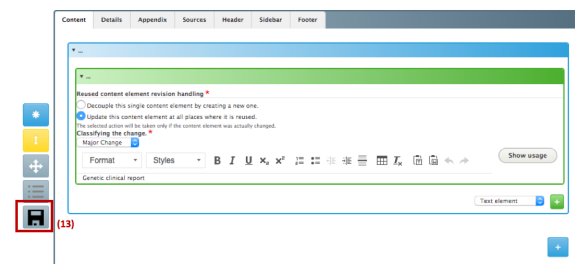
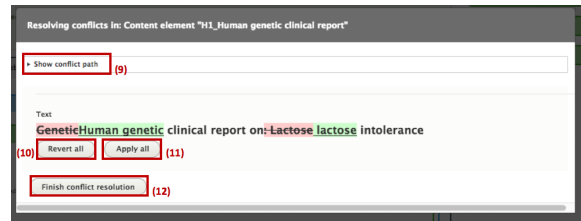
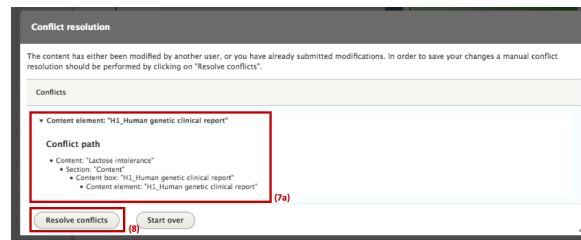
A modal window appears. The affected element in the affected content is shown (7). To comprehend where the element is located in the content, click on it and the Conflict path opens (7a).

- a) click *Resolve conflicts* (8) to see the modification of both users



- click *Show conflict path* to see, where the content element is used (9)
- click *Revert all* to switch all color codes (10). All green marked areas will be colored red and vice versa.
- click *Apply all* to accept the displayed modifications (11). Changes marked green will be applied, changes marked red will be removed. To switch the color for an marked area, click on it.
- optional: in case more than one content element is included in conflicts click *Go to the next conflict* to change to the next text for actualization.
- click *Finish conflict resolution* (12) to exit the conflict resolution. The final version is shown in the content element now.
- optional: edit another content
- click Save (13)

b) click *Start over* (14) to reset all modifications of the second user. The content will be reloaded in the last saved state including the changes of the first user or others that have caused the conflicts. Click Save (15).



### Possible next steps

- [Text elements overview](#)
- [Media elements overview](#)
- [Removing content elements from content](#)
- [Editing a content element](#)
- [Moving a content element](#)
- [Adding notes to content elements](#)

# Using similar content elements

## How to get here

### Default way:

**Toolbar** > Data > **Content** > Operations: *Edit*

### Other ways:

- **Toolbar** > Data > Content > Operations: *View* > Edit
- **Toolbar** > Data > Content > Operations: *Parameters* > Edit
- **Toolbar** > Data > Content > Operations: *Workflow states* > Edit
- **Toolbar** > Data > Content > Operations: *Settings* > Edit
- **Toolbar** > Data > Content > Operations: *Translate* > Edit

## Role

Content Editor

When amending a content or setting up a new content, existing content elements from other contents can be reused. This makes sense for example when elements in different contents have identical or similar wording. For the integration of existing content elements see [Adding an existing content element](#).

Changes within reused content elements are automatically transferred into other contents where the element is used.

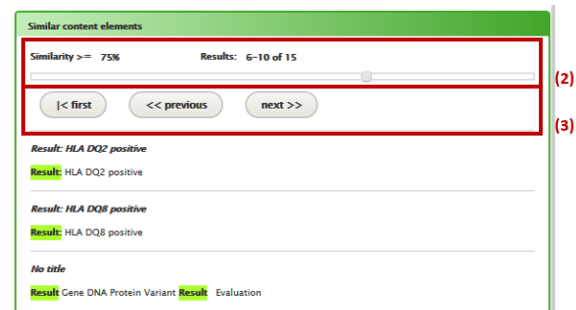
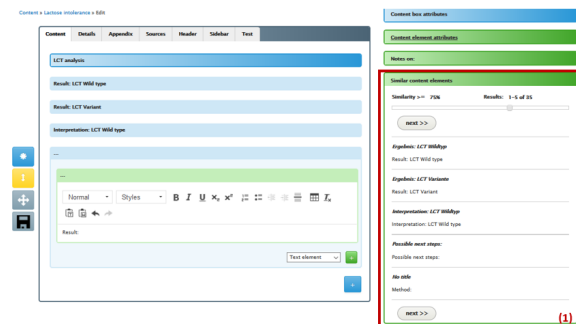
When text is added in a new **content element**, the *Similar content elements* box in the right sidebar opens automatically if other existing content elements contain similar text (1).

Within this box, the search results for elements with similar text are displayed. For **text elements** the full text is compared, for **media elements** similarities of the captions are considered. Barcode elements are not considered.

When the *Similar content elements* box is closed, its search results will not be updated until it is opened again. Once it has been closed manually, it will not open automatically again.

Per default the similarity threshold is set to 75%, but using the slider it can be reduced to 25% or increased to 100% (2).

A maximum of five content elements are shown at once. Click the *next* and *previous* buttons to browse through all suggested elements (3).



#### **Possible next steps**

- [Editing a content element](#)
- [Viewing content elements](#)
- [Moving a content element](#)
- [Adding notes to content elements](#)



# Viewing notes of content elements

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: *Edit*

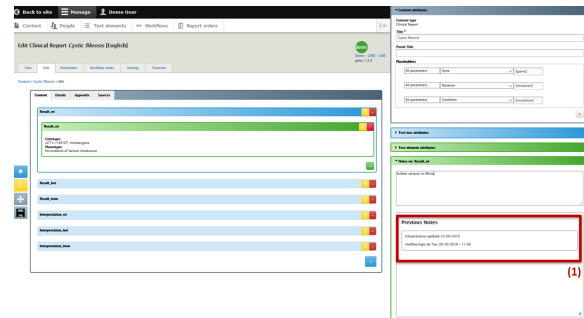
### Other ways:

- [Toolbar](#) > Data > Content > Operations: *View* > Edit
- [Toolbar](#) > Data > Content > Operations: [Parameters](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Workflow states](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Settings](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Translate](#) > Edit

## Role

Content Editor

1. Select the [content element](#).
2. Open the *Notes on:* box in the right sidebar (1).
3. All [notes](#) are displayed in the lower field.



## Possible next steps

- [Editing a content element](#)
- [Adding notes to content elements](#)

# Adding notes to content elements

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: *Edit*

### Other ways:

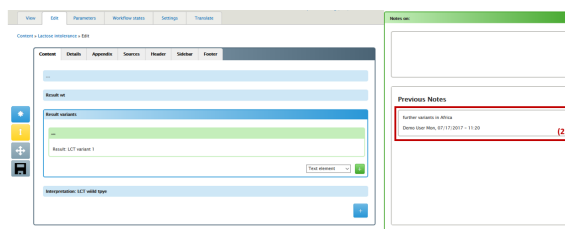
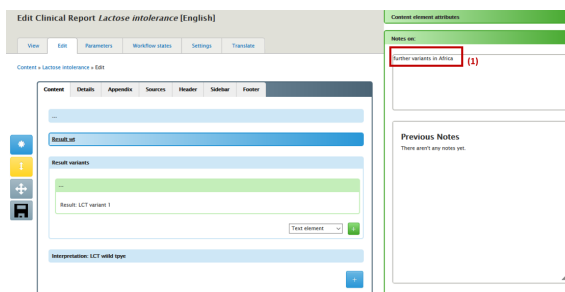
- [Toolbar](#) > Data > Content > Operations: *View* > Edit
- [Toolbar](#) > Data > Content > Operations: [Parameters](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Workflow states](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Settings](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Translate](#) > Edit

## Role

Content Editor

1. Select the [content element](#)
2. Open the *Notes on: ...* box in the right sidebar
3. Write the [note](#) in the upper field (1)
4. Click *Save*

The note is saved under Previous Notes. The author and the date are also documented here (2).



## Possible next steps

- [Viewing notes of content elements](#)
- [Editing a text element](#)
- [Moving a content element](#)

# Working with tags

## How to get here

### Default way:

- **Toolbar** > Data > **Content** > Operations: *Edit*
- **Toolbar** > Data > Text/Media elements

### Other ways:

- **Toolbar** > Data > Content > Operations: *View* > Edit
- **Toolbar** > Data > Content > Operations: *Parameters* > Edit
- **Toolbar** > Data > Content > Operations: *Workflow states* > Edit
- **Toolbar** > Data > Content > Operations: *Settings* > Edit
- **Toolbar** > Data > Content > Operations: *Translate* > Edit

## Role

Content Editor

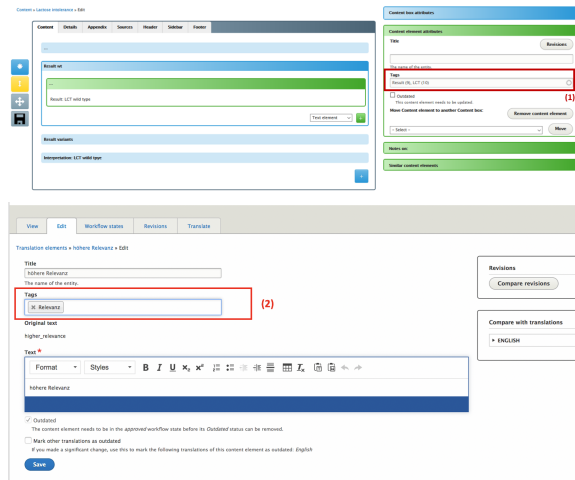
**Tags** can be used to assign **content elements** to specific categories to facilitate searching for thematic content. All translations are affected by tagging.

## Tagging of content elements

- Open the *Content element attributes* in the right sidebar on the Edit tab
- Enter a **tag** name (1)
  - If the tag has been used before, a drop down menu opens for choosing the right tag
  - New tags are created and linked to their IDs, shown in brackets, and are available for all contents after saving
- Optional: enter further tags separated by commas (1)
- Save

Please note:

- **Translation elements** cannot be tagged inside the content. Translation element can be tagged in the **Translation elements overview** list



## Tagging of translation elements

- Select the **translation elements** and click *Edit*.
- Enter a **tag** name (2)
- Optional: enter further tags separated by commas
- Save



## Filtering by tags

- Open the [text elements overview](#), [translation elements overview](#) or [media elements overview](#). Already assigned tags are shown in the right box, the number of content elements linked to this tag is displayed in brackets (2).
- Click a tag for viewing all [content elements](#) of this category
  - Click more than one tag or other filtering options for a combined search
- Click ( - ) to undo filtering

Please note:

Changing filtering options resets the selection of tags.

### Possible next steps

- [Adding a content box to content](#)
- [Moving a content box](#)
- [Editing a content element](#)
- [Adding notes to content elements](#)

# Removing content elements from content

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: Edit

### Other ways:

- [Toolbar](#) > Data > Content > Operations: *View* > Edit
- [Toolbar](#) > Data > Content > Operations: *Parameters* > Edit
- [Toolbar](#) > Data > Content > Operations: *Workflow states* > Edit
- [Toolbar](#) > Data > Content > Operations: *Settings* > Edit
- [Toolbar](#) > Data > Content > Operations: *Translate* > Edit

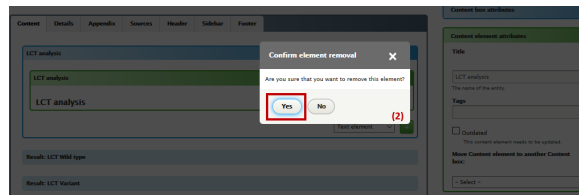
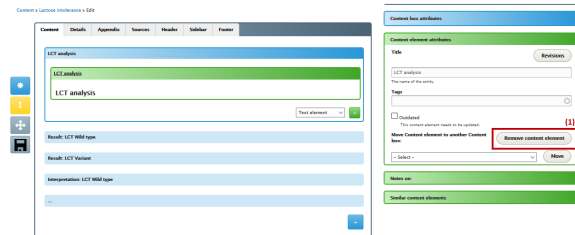
## Role

Content Editor

- open the content element
- click the *Remove content element* button in the *Content element attributes* in the right sidebar (1)
- click *Yes* in the modal window (2)

### Please note:

The content element will not be displayed in the content anymore. It is however not removed from the content management system and can still be used in other contents (see [Adding content elements](#)). This also allows the removal to be reversed by reinserting the content element.



## Possible next steps

- [Editing a content element](#)
- [Moving a content element](#)
- [Adding notes to content elements](#)

# Moving a content element

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: *Edit*

### Other ways:

- [Toolbar](#) > Data > Content > Operations: *View* > Edit
- [Toolbar](#) > Data > Content > Operations: *Parameters* > Edit
- [Toolbar](#) > Data > Content > Operations: *Workflow states* > Edit
- [Toolbar](#) > Data > Content > Operations: *Settings* > Edit
- [Toolbar](#) > Data > Content > Operations: *Translate* > Edit

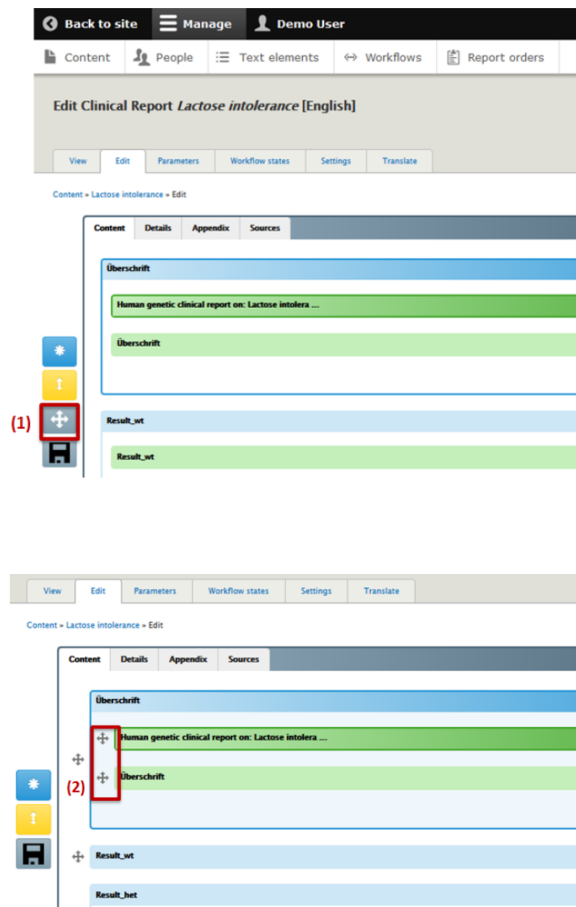
## Role

Content Editor

## Within a content box

Dragging has to be enabled by clicking on the gray button on the left with the drag symbol (1).

Change the order of the [content elements](#) within a [content box](#) by dragging them (2). Moved content elements remain marked with an asterisk.



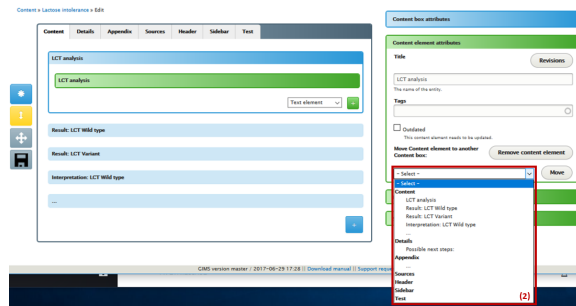
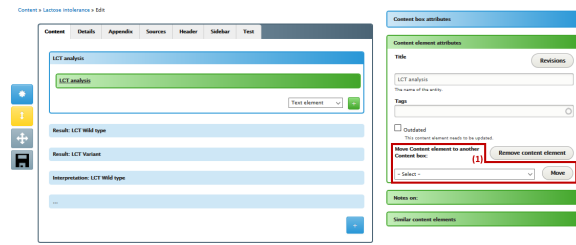
## To another content box

1. Select the [content element](#) that should be moved.
2. Open the *Content element attributes* box in the right sidebar (1).

3. Under *Move Content element to another content box* select the target [content box](#) (2).
4. Click *Move*.

If there is no content box at the final destination available yet, a new content box can be generated ([Adding a content box to content](#)) or the content box including the content element can be moved ([Moving a content box](#)).

Please note: Moving is possible as soon the content element has been saved.



### Possible next steps

- [Adding a content box to content](#)
- [Moving a content box](#)
- [Editing a content element](#)
- [Adding notes to content elements](#)

# Managing content element revisions

## How to get here

### Outside the content

- [Toolbar](#) > Data > [Text elements](#) > title > Edit > *Compare revisions*
- [Toolbar](#) > Data > [Text elements](#) > title > Revisions > *Compare*

### Inside the content

[Toolbar](#) > Data > [Content](#) > *Edit* > Revisions > *Compare*

## Role

Content Editor

Select the *Revisions* tab or click the *Compare Revisions* button in the right sidebar in the *Edit* tab to open a modal window with the overview of [revisions](#) of the [content element](#). Only the revisions made in the current translation of the content element are shown.

For each revision the following information is shown:

- author: the [user](#) who has created the revision
- changed: the date when the revision has been created
- revision ID
- compare from: needed for comparing two revisions
- compare to: needed for comparing two revisions

To close the modal window, click *x*.

To see the difference between two revisions, select them and click *Compare*.

Only the content but not the title of the content element is compared.

Removed content is marked in red and crossed out, new content is marked in green and underlined.

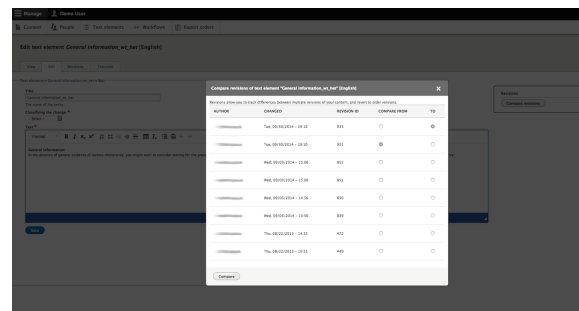
To revert all changes:

1. Click *Revert all*.
2. The modal window will be closed and the reverted content is shown within the text editor.

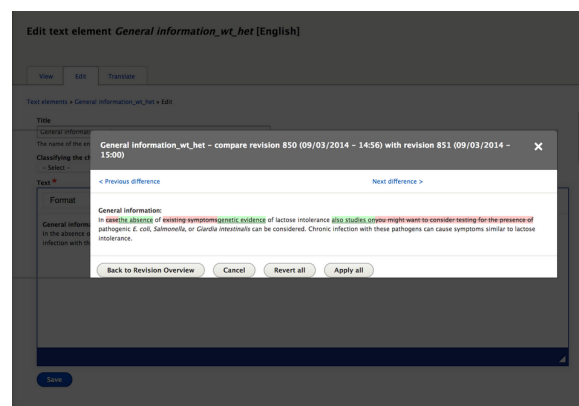
Additionally, it is possible to accept or discard marked changes individually:

1. Click on the marked content. Labelling will change from red and crossed out to green and underlined and the other way around.
2. Click *Apply all* to delete the red marked content and keep the green marked content or click *Revert all* to keep the red marked content and delete the green marked content.

To go back, click *Back to Revision Overview*. To close the modal window, click *x* or *Cancel*.



## Text elements



## Media elements

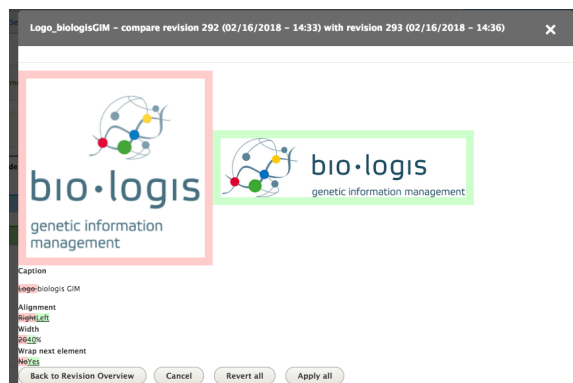


For media elements, changes of the following characteristics are displayed:

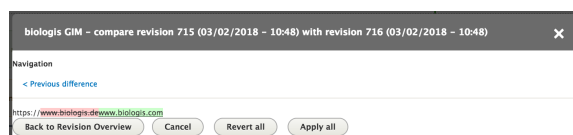
- image
- caption
- alignment
- width
- wrap the next element.

All, except the image, can be reverted by clicking the *Revert all* button.

For [barcode elements](#), changes of the text encrypted to the QR code are displayed.



## Barcode elements



### Possible next steps

#### Outside the content

- [Viewing content elements](#)
- [Translating content elements](#)

#### Inside the content

- [Editing content](#)
- [Moving a content element](#)
- [Adding notes to content elements](#)

# Translating content elements

## How to get here

### Default way:

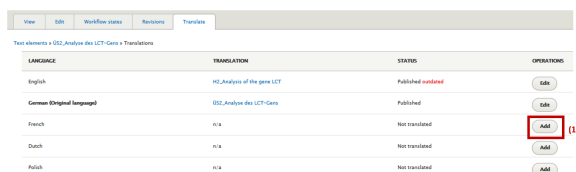
[Toolbar](#) > Data > [Text elements](#) > title > Translate

[Toolbar](#) > Data > Media elements > title > Translate

## Role

Content Editor

Select the language for the new translation and click *Add*(1).



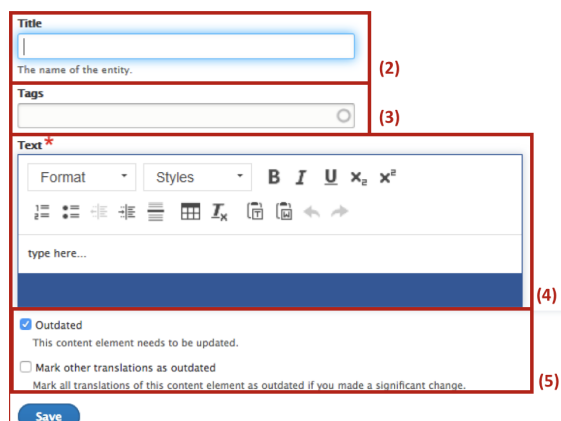
LANGUAGE	TRANSLATION	STATUS	OPERATIONS
English	H2_Analysis of the gene UCT	Published <i>outdated</i>	<a href="#">Edit</a>
German (Original language)	H2_Analysis des UCT-Gens	Published	<a href="#">Edit</a>
French	N/A	Not translated	<a href="#">Add</a> (1)
Dutch	N/A	Not translated	<a href="#">Add</a>
Polish	N/A	Not translated	<a href="#">Add</a>

When creating a translation for a text element, the following actions can be applied:

1. Enter the translated title for the text element (2).
2. Set [tags](#) for the text element (3).
3. Translate the text (4).
4. The text element is marked as outdated. The labelling can be cancelled, if no changes are necessary. Optionally mark other translations as [outdated](#) (5).
5. Click *Save*.

For translating the whole content see [Translating contents](#).

Text elements > ... > Translations > Add > Add > Add



**Title**  
The name of the entity. (2)

**Tags** (3)

**Text** (4)

☒ **Outdated**  
This content element needs to be updated.  
☐ Mark other translations as outdated  
Mark all translations of this content element as outdated if you made a significant change. (5)

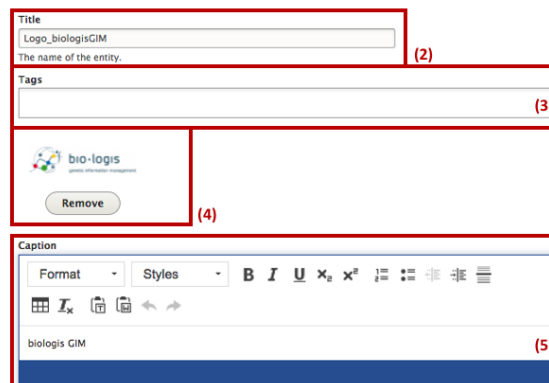
**Save**

When creating a translation for a media element, the following actions can be applied:

1. Enter the translated title for the media element (2).
2. Set [tags](#) for the media element (3).
3. Remove the image (4). It is possible to insert a new image.
4. Translate the caption (5).
5. Determine size and alignment of the image and decide if the following text should wrap it (6).
6. The media element is marked as outdated. The labelling can be cancelled, if no changes are necessary. Optionally mark other translations as [outdated](#) (7).
7. Click *Save*.


For translating the whole content see [Translating contents](#).

Logo\_biologyGIM > Translations > Add > Add > Add



**Title**  
Logo\_biologyGIM (2)

**Tags** (3)

 Remove (4)

**Caption** (5)

Width \*

45 %

▼ MARGINS

Top margin

0 %

Left margin

0 %

Right margin

0 %

Bottom margin

0 %

Alignment \*

☒ Left ☐ Center ☐ Right

☐ Wrap next element

☒ Outdated

This content element needs to be updated.

☐ Mark other translations as outdated

Mark all translations of this content element as outdated if you made a significant change.

Save

(6)

(7)

### Possible next steps

- [Viewing a content element](#)
- [Editing the content element](#)
- [Moving a content element](#)
- [Working with tags](#)
- [Adding notes to content elements](#)

# Publishing content element

## How to get here

### Default way:

[Toolbar](#) > Data > [Text elements](#) > title

[Toolbar](#) > Data > Media elements > title

[Toolbar](#) > Data > [Translation elements](#) > title

## Role

Content Viewer +  
Content Element Reviewer or  
Content Element Approver or  
Content Element Publisher

The *Workflow* block displays the used [workflow](#), the current [state](#), and the possible new [states](#).

This is only for the current translation language.

Corresponding to the workflow only the next defined state can be selected. Therefore, several publishing steps and possibly several users with different roles may be necessary in order to release a content element for publication. In case the current [user's role](#) does not allow a transition, the list of new states can be empty.

1. Select the new state
2. Click *Change state* (1)

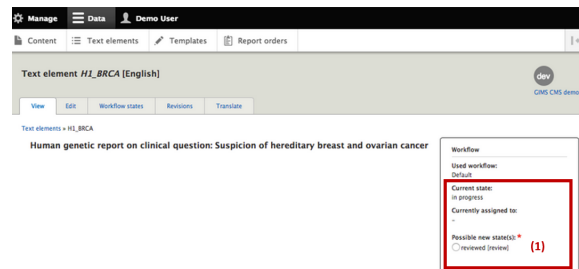
The process can be repeated until the content has reached the state *published*.

Please note:

- The workflow can be modified by the *Workflow Editor*, see [editing a workflow](#).
- In case content falls back into a non-published state, the most recently published version is delivered.

## Possible next steps

- [Editing a content element](#)
- [Translating content elements](#)



# Placeholders

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: *Edit*

### Other ways:

- [Toolbar](#) > Data > Content > Operations: *View* > Edit
- [Toolbar](#) > Data > Content > Operations: [Parameters](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Workflow states](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Settings](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Translate](#) > Edit

## Role

Content Editor

The same text can often be applied for different circumstances except for some details. For example, the interpretation can be true for different laboratory testing results. Texts needed for reporting such results differ from each other only where the exact result is reported. In such cases, [placeholders](#) can be used within a [content element](#) or [template](#) to create fields where context specific information can be integrated exactly for the desired situation.

Placeholders can be used for [parameters](#), [general information](#), [measurements](#) and also for whole content elements. Background information for parameters can be provided as [metadata](#). For general information and measurements all information assigned to them in the settings can be integrated as placeholders in the content element.

[Rule-based placeholders](#) represent a special case: they source their information from content elements and can be filled rule depending by various contents.

On the View tab, placeholders which are not filled because the associated parameter is not selected, show the node designation of the related content as well as the placeholder name manually assigned by the user, e.g. `[[node_2:gene]]`. The node can be used to trace back from which content the placeholder was transferred in case of [content integration](#).

3 specific placeholders with different functions are available:

- 1) [Placeholders](#) in general
- 2) [Iterative placeholders](#)
- 3) [Flexible placeholders](#)

## Possible next steps

- [Viewing placeholders](#)
- [Adding a placeholder](#)
- [Editing a placeholder](#)
- [Working with metadata](#)
- [Removing a placeholder](#)
- [Moving a content element](#)

- [Adding notes to content elements](#)

# Viewing placeholders

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: *Edit*

### Other ways:

- [Toolbar](#) > Data > Content > Operations: *View* > Edit
- [Toolbar](#) > Data > Content > Operations: [Parameters](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Workflow states](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Settings](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Translate](#) > Edit

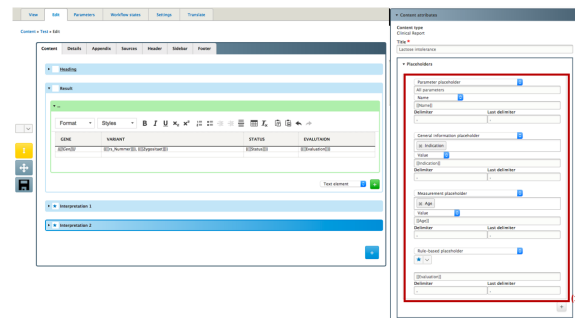
## Role

Content Editor

# Viewing general and iterative placeholders

Placeholders for [parameter](#), [general information](#) and [measurements](#) can be found in [content elements](#) of the [content](#). They are administered in the *Content attributes* in the right sidebar (1). All of these placeholders can be converted to [iterative placeholders](#).

[Rule-based placeholders](#) are tagged by an exclusion set in the right sidebar. All content boxes with the same exclusion set symbol can be integrated in the placeholder in case their rule applies.



# Viewing flexible placeholders

[Flexible placeholders](#) can be found in the corresponding [content element](#) or [template](#). Linkage to specific information of [general information](#) or [measurements](#) must be established by the administrator or the placeholders can be filled manually during document generation.

## Possible next steps

- [Adding a placeholder](#)
- [Editing a placeholder](#)
- [Removing a placeholder](#)
- [Moving a content element](#)
- [Adding notes to content elements](#)





# Adding a placeholder

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: *Edit*

### Other ways:

- [Toolbar](#) > Data > Content > Operations: *View* > Edit
- [Toolbar](#) > Data > Content > Operations: [Parameters](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Workflow states](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Settings](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Translate](#) > Edit

## Role

Content Editor

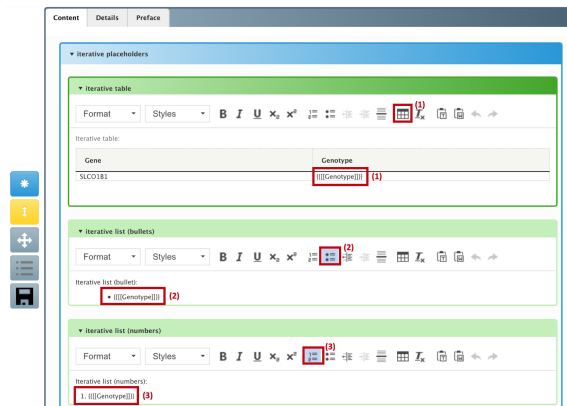
## Adding a placeholder

To add a general placeholder, first decide whether the information to be inserted contains details about parameters (with metadata), general information or measurements.

For further details see [Adding a parameter placeholder](#), [Adding a general information placeholder](#), [Adding a measurement placeholder](#).

## Adding an iterative placeholder

To generate a list of data in a table or as a bulleted or numbered list in a content element, [parameter](#), [general information](#) and [measurement placeholders](#) can be converted to [iterative placeholders](#). In case of incorrect handling look for the affected content element in the content elements overview and correct the content by adding a table or list to iterative placeholders.



First create a placeholder ([Adding a metadata placeholder](#), [Adding a general information placeholder](#), [Adding a measurement placeholder](#)). Transfer it into a table (1) or use one of the list features, either bulleted (2) or numbered (3). Supplement the string by {{ in the beginning and }} at the end. In the view mode the list of metadata of all selected parameters is shown. For general information and measurements a list of the settings values of all selected general information/measurements is shown.

The screenshot shows the 'Content' tab of the GIMS interface. It displays a table with two columns: 'GENE' and 'GENOTYPE'. The table contains three rows of data for the 'SLCO1B1' gene, with genotypes '\*1A/\*1A', '\*1A/\*1B', and '\*1B/\*1B'. The last row is marked with a red box and the number (1). Below the table, there are three sections: 'Iterative list (bullets):' with three items, 'Iterative list (numbers):' with three items, and a list of placeholders for a clinical report header. The placeholders are: '[#Physician: Title Name#]', '[#Physician: Street No #]', '[#Physician: Postcode City#]', '[#Creation date#]', 'Name: [# Patient: Name#]', 'First name: [# Patient: First name#]', 'Date of birth: [#Patient: Date of birth#]', 'Indication: [#Indication#]', 'Date of receipt: [#Date of receipt#]', 'Sample type: [#Sample type#]', 'External ID: [#External ID#]', and 'Order number: [#Order number#]'. The last row of placeholders is marked with a red box and the number (1).

## Adding a flexible placeholder

To add a **flexible placeholder**, write a string starting with [# and end with #] within a **content element** or **template**. The string in between is the identifier for the placeholder replacement.

Please note: Templates are usable only in combination with the Report Layout Engine.

Example: Design of the Header of a clinical report.

- flexible placeholders are deposited in the template (1)
- after [Adding a new template](#) and [Setting the used template](#) create a new report preview on the *View* tab of the content. The flexible placeholders are displayed in a modal window and can be filled with report specific data (2).
- click *Apply* and the report preview with integrated data will be generated.

The screenshot shows the 'DM Report Generator' modal window. It contains several input fields for patient and physician information: 'Physician: Title Name', 'Physician: Street No.', 'Physician: Postcode City', 'Creating date', 'Patient: Name', 'Patient: First Name', 'Patient: Date of birth', and 'Indication'. The last field is marked with a red box and the number (2).

## Adding a rule-based placeholder

There are three different ways to add a **rule-based placeholder** to the **content**:

The screenshot shows the 'New placeholders' dialog box in the GIMS interface. It contains a text input field for the placeholder name and an 'OK' button. The dialog box is marked with a red box and the number (1).

## Writing a content element

- Write a string within a **content element** starting with [[ and ending with ]] (1)
- Click somewhere outside the content element
- A modal window opens confirming the new placeholder (2)
- Click *OK* and the placeholder will be added to the list (3)
- From the select list (*Select placeholder type*) select *Rule-based placeholder* (4)
- Select an exclusion set to flag the placeholder (5)
- Create a content box including content that shall be integrated under certain conditions (6a)
- Select the same exclusion set for the content box as for the rule-based placeholder (7a)

9. Select the rule for which the content shall be added in the placeholder (8a)
10. Mark the content box as *Includable* (9a)
11. Repeat 7 - 10 for all possible contents for the rule-based placeholders (7b - 9b)
12. Click *Save*

## Reusing a content element

1. [Adding content elements](#) which contains rule-based placeholders
2. A modal window opens confirming the new placeholders (2)
3. Click *OK* and the new rule-based placeholder will be added to the list (3)
4. Adjust the exclusion set of the rule-based placeholder (4,5)
5. Create a content box including content that shall be integrated with exclusion set, rule and *Includable* flag (7-9)
6. Click *Save*

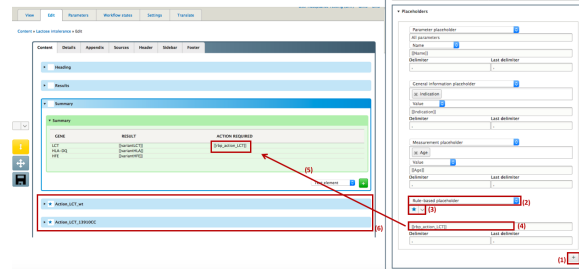
## Define placeholders manually

1. Click + below the list of the used placeholders (1)
2. From the select list (*Select placeholder type*) select *Rule-based placeholder* (2)
3. Select an exclusion set (3)
4. Fill in a name between [...] (4)
5. Copy the name [...] into the content element (5)
6. Create all content boxes including content that shall be integrated with exclusion set, rule and *Includable* flag (6)
7. *Save*

On the *View* tab the rule-based placeholder is replaced with the desired content if the rule of one underlying content box is fulfilled (10).

Please note:

- only the content of the first [content box](#) with fulfilled rule will be included regardless of other content boxes whose rules are fulfilled as well. The [exclusion sets](#) define exclusive content and prevents their common delivery.
- endless loops must be prevented: do not integrate the content box A into the content box B and vice versa.
- includable content box contains less [text formats](#). Headings and tables can not be set.
- content boxes marked as *Includable* will not be displayed in the location they are placed on the edit form (no matter if their rule matches or not) but only as replacement for a rule-based placeholder.
- on View tab: if rules for several includable context boxes are fulfilled for the replacement, only the content of the first box is displayed instead of the placeholder, a [warning](#) is shown.
- [content integration](#) is possible if the content box with the rule-based placeholder and all includable content boxes are set on the section to be integrated



### Possible next steps

- Adding a placeholder
- Editing a placeholder
- Removing a placeholder
- Moving a content element
- Adding notes to content elements

# Adding a parameter placeholder

## How to get here

### Default way:

**Toolbar** > Data > **Content** > Operations: *Edit*

### Other ways:

- **Toolbar** > Data > Content > Operations: *View* > Edit
- **Toolbar** > Data > Content > Operations: *Parameters* > Edit
- **Toolbar** > Data > Content > Operations: *Workflow states* > Edit
- **Toolbar** > Data > Content > Operations: *Settings* > Edit
- **Toolbar** > Data > Content > Operations: *Translate* > Edit

## Role

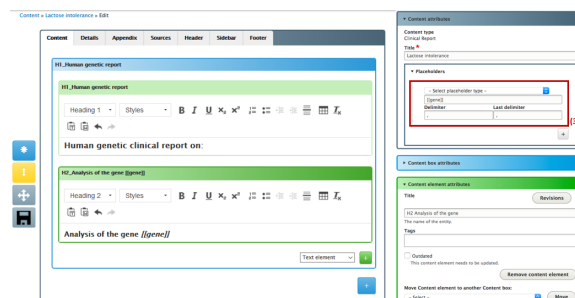
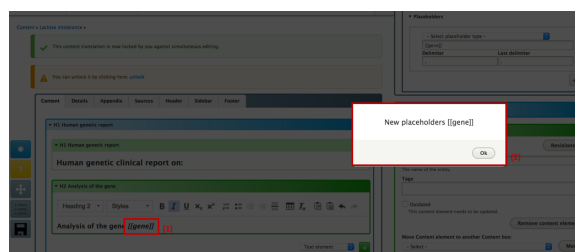
Content Editor

Before integrating parameter specific information into the content, the required metadata have to be assigned to the parameters (for details see [Working with metadata](#)).

There are three different ways to add a **metadata placeholder** to the **content**:

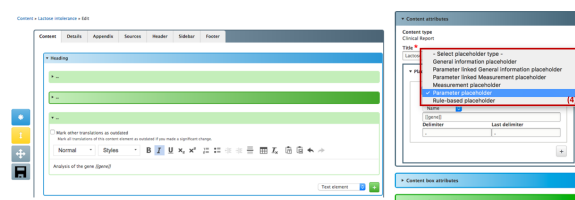
## Writing a content element

1. Write a string within a **content element** starting with `[[` and ending with `]]` (1)
2. Click somewhere outside the **content element**
3. A modal window opens confirming the new placeholder (2). Click **OK** and the placeholder will be added to the list (3)
4. From the select list (*Select placeholder type*) select *Parameter placeholder* (4)
5. Adjust the parameter(s) (5)
6. Select metadata field. Choose between the name of the parameter (6) and the content of a metadata field (6a, [Working with metadata](#))
7. Insert the name of the placeholder if not already done in the text (7)
8. Optional: configure delimiters for enumerations of included values (8)
9. Click **Save**

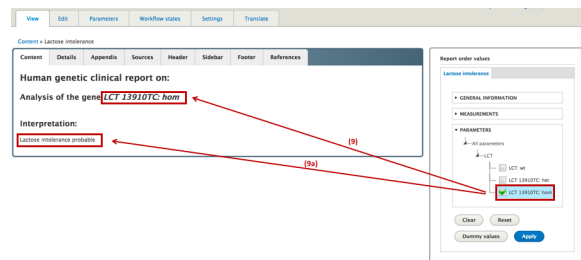
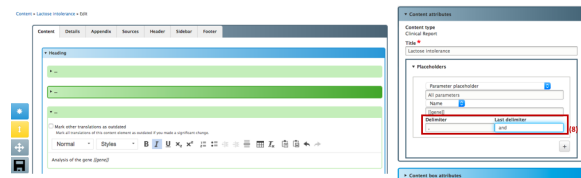
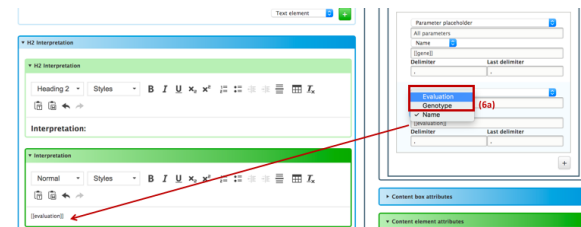
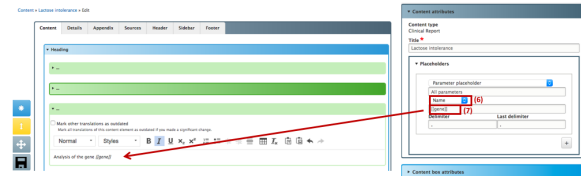
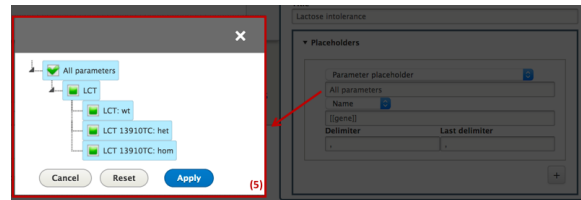


## Reusing a content element

1. [Adding content elements](#) which contains **parameter placeholders**
2. A modal window opens confirming the new parameter placeholders (2).
3. Click **OK** and the parameter placeholder will be added to the list (3).
4. From the select list (*Select placeholder type*) select *Parameter placeholder* (4)
5. Adjust the parameter(s) (5) and metadata field (6)
6. Click **Save**

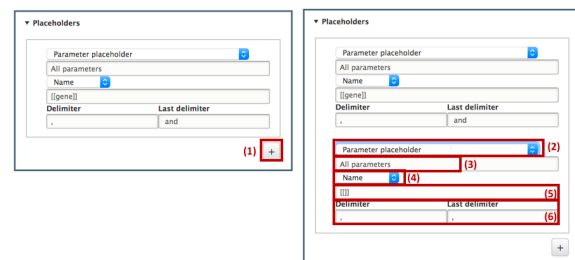


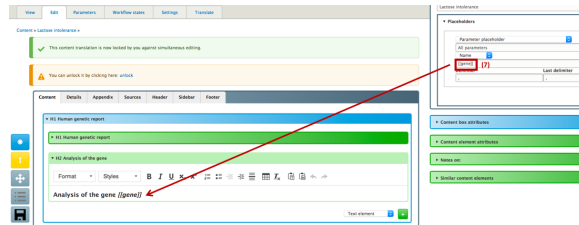
On the *View* tab the placeholder is replaced with the deposited metadata as soon as a specific parameter has been selected (9).



## Define placeholders manually

1. Click + below the list of the used placeholders (1)
2. From the select list (*Select placeholder type*) select *Parameter placeholder* (2)
3. Select parameter(s) from the parameter tree (3)
4. Select the metadata field (4)
5. Fill in a name between [...] (5)
6. optional: configure delimiters for enumerations of included values (6)
7. Copy the name [...] into the content element (7)
8. Click *Save*





### Possible next steps

- [Adding a placeholder](#)
- [Editing a placeholder](#)
- [Removing a placeholder](#)
- [Moving a content element](#)
- [Adding notes to content elements](#)

# Adding a general information placeholder

## How to get here

### Default way:

**Toolbar** > Data > **Content** > Operations: *Edit*

### Other ways:

- **Toolbar** > Data > Content > Operations: *View* > Edit
- **Toolbar** > Data > Content > Operations: *Parameters* > Edit
- **Toolbar** > Data > Content > Operations: *Workflow states* > Edit
- **Toolbar** > Data > Content > Operations: *Settings* > Edit
- **Toolbar** > Data > Content > Operations: *Translate* > Edit

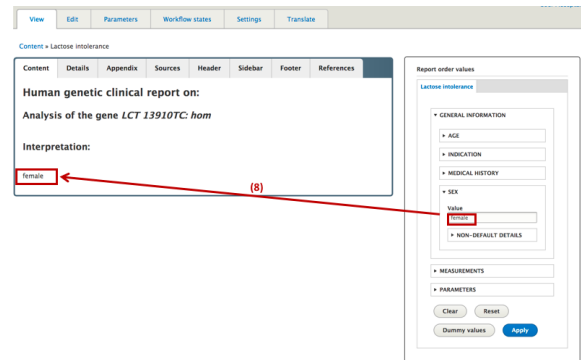
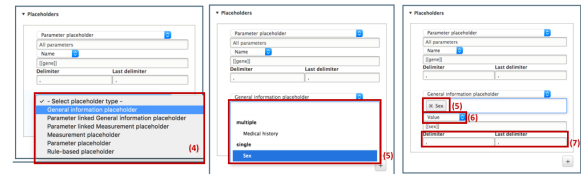
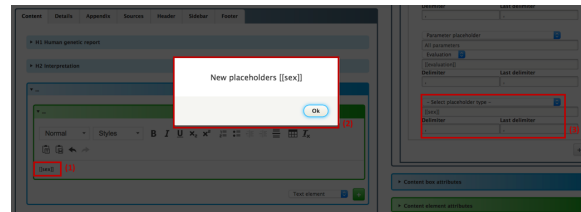
## Role

Content Editor

There are three different ways to add a general information placeholder to the **content**:

## Writing a content element

1. Write a string within a **content element** starting with `[[` and ending with `]]` (1).
2. Click somewhere outside the content element.
3. A modal window opens confirming the new placeholder (2).
4. Click *OK* and the placeholder will be added to the list (3).
5. From the select list (*Select placeholder type*) select *General information placeholder* (4).
6. Select the general information (5) and the setting (6). Optional: in case of *Multiple input elements*, select the index. More than one selected general information with multiple input is currently not supported.
7. Optional: configure delimiters for enumerations of included values (7).
8. Click *Save*.



## Reusing a content element

1. **Adding content elements** which contains **general information placeholders**.
2. A modal window opens confirming the new general information placeholder (2).
3. Click *OK* and the new general information placeholder will be added to the list (3).
4. Adjust the settings of the placeholder (4, 5, 6).
5. Optional: configure delimiters for enumerations of included values (7).
6. Click *Save*.

On the *View* tab the placeholder is replaced with the deposited information as soon as a specific general information has been selected (8).

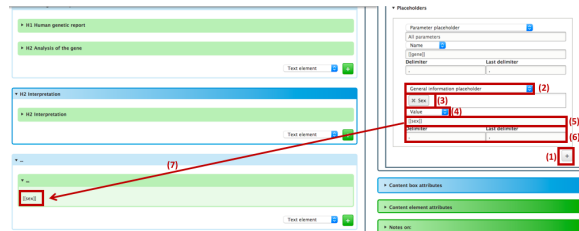
Please note:



- The value field must always be filled, regardless of whether it is used for rules or placeholders. Otherwise the general information cannot be detected.
- The value fields are limited in their number of characters (see [General information](#)). This affects both dummy and real transmitted values.

## Define placeholders manually

1. Click **+** below the list of the used placeholders (1).
2. From the select list (*Select placeholder type*) select *General information placeholder* (2).
3. Select one or more general information (3).
4. Select the general information setting (4).
5. Fill in a name between [...] (5).
6. Optional: configure delimiters for enumerations of included values (6).
7. Copy the name [...] into the content element (7).
8. Click *Save*.



### Possible next steps

- [Adding a placeholder](#)
- [Editing a placeholder](#)
- [Removing a placeholder](#)
- [Moving a content element](#)
- [Adding notes to content elements](#)

# Adding a measurement placeholder

## How to get here

### Default way:

**Toolbar** > Data > **Content** > Operations: *Edit*

### Other ways:

- **Toolbar** > Data > Content > Operations: *View* > Edit
- **Toolbar** > Data > Content > Operations: *Parameters* > Edit
- **Toolbar** > Data > Content > Operations: *Workflow states* > Edit
- **Toolbar** > Data > Content > Operations: *Settings* > Edit
- **Toolbar** > Data > Content > Operations: *Translate* > Edit

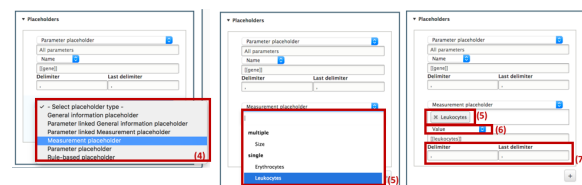
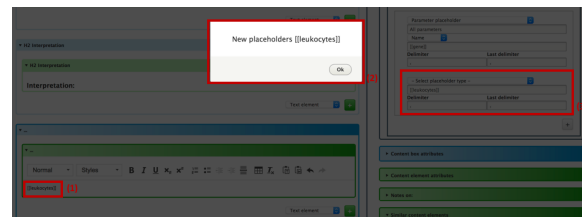
## Role

Content Editor

There are three different ways to add a measurement placeholder to the **content**:

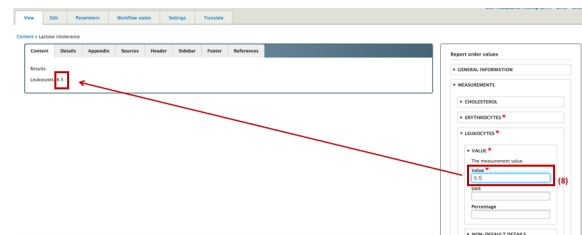
## Writing a content element

1. Write a string within a **content element** starting with `[[` and ending with `]]` (1).
2. Click somewhere outside the content element.
3. A modal window opens confirming the new placeholder (2).
4. Click **OK** and the placeholder will be added to the list (3).
5. From the select list (*Select placeholder type*) select *Measurement placeholder* (4). Optional: in case of *Multiple input elements*, select the index. More than one selected measurement with multiple input is currently not supported.
6. Select one or more measurement(s) and the setting(s) (5, 6).
7. Optional: configure delimiters for enumerations of included values (7).
8. Click **Save**.



## Reusing a content element

1. **Adding content elements** which contains **measurement placeholders**.
2. A modal window opens confirming the new measurement placeholders (2).
3. Click **OK** and the new measurement placeholders will be added to the list (3).
4. Adjust the settings of the placeholders (4, 5, 6).
5. Optional: configure delimiters for enumerations of included values (7).
6. Click **Save**.



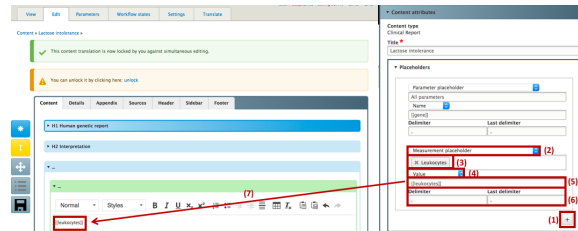
On the *View* tab the placeholder is replaced with the deposited information as soon as specific measurements have been selected (8).

Please note:

- The value field must always be filled, regardless of whether it is used for rules or placeholders. Otherwise the general information cannot be detected.
- The value fields are limited in their number of characters (see [Measurements](#)). This affects both dummy and real transmitted values.

## Define placeholders manually

1. Click **+** below the list of the used placeholders (1).
2. From the select list (*Select placeholder type*) select *Measurement placeholder* (2).
3. Select one or more measurements (3).
4. Select the measurement setting (4).
5. Fill in a name between `[[...]]` (5).
6. Optional: configure delimiters for enumerations of included values.
7. Copy the name `[[...]]` into the content element (6).
8. Click *Save*.



### Possible next steps

- [Adding a placeholder](#)
- [Editing a placeholder](#)
- [Removing a placeholder](#)
- [Moving a content element](#)
- [Adding notes to content elements](#)

# Adding a parameter linked general information placeholder

## How to get here

### Default way:

**Toolbar** > Data > **Content** > Operations: *Edit*

### Other ways:

- **Toolbar** > Data > Content > Operations: *View* > Edit
- **Toolbar** > Data > Content > Operations: *Parameters* > Edit
- **Toolbar** > Data > Content > Operations: *Workflow states* > Edit
- **Toolbar** > Data > Content > Operations: *Settings* > Edit
- **Toolbar** > Data > Content > Operations: *Translate* > Edit

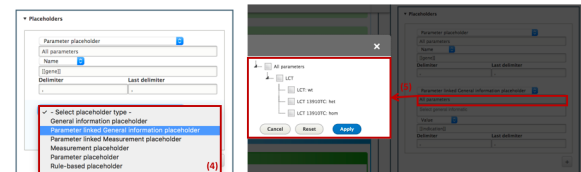
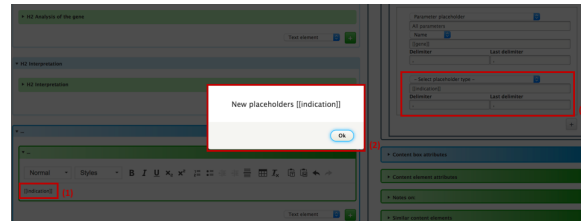
## Role

Content Editor

There are three different ways to add a parameter linked general information placeholder to the **content**:

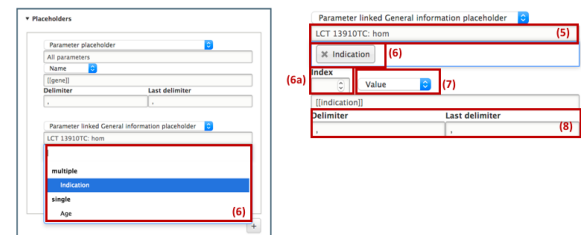
## Writing a content element

1. Write a string within a **content element** starting with `[[` and ending with `]]` (1)
2. Click somewhere outside the content element. A modal window opens confirming the new placeholder (2)
3. Click *OK* and the placeholder will be added to the list (3)
4. From the select list (*Select placeholder type*) select *Parameter linked General information placeholder* (4)
5. Adjust the parameter(s) for that the placeholder should be filled (5)
6. Adjust the general information (6a), select the setting (6b). Optional: in case of *Multiple input elements*, select the index (6c). More than one selected general information with multiple input is currently not supported.
7. Optional: configure delimiters for enumerations of included values.
8. Click *Save*.



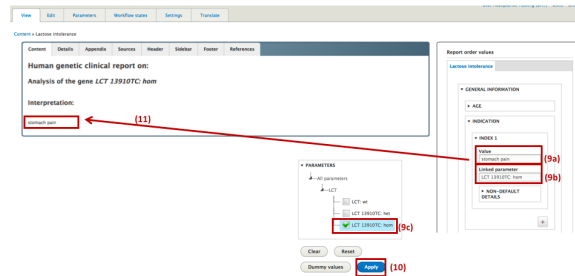
## Reusing a content element

1. **Adding content elements** which contains parameter linked general information placeholders
2. A modal window opens confirming the new placeholders (2)
3. Click *OK* and the new parameter linked general information placeholders will be added to the list (3)
4. From the select list (*Select placeholder type*) select *Parameter linked General information placeholder* (4)
5. Adjust the parameter(s) for that the placeholder should be filled (5)
6. Adjust the general information (6). Optional: in case of *Multiple input elements*, select the index (6a). More than one selected general information with multiple input is currently not supported.
7. Select the setting (7).
8. Optional: configure delimiters for enumerations of included values (8).
9. Click *Save*.



On the *View* tab:

8. Fill the value field and if desired the field of other settings of the general information (9a), select the right parameter in the parameter tree (9b).
9. Enter the external ID of the parameter (9c).
10. Click *Apply* (10).
11. The placeholder will be filled (11) in the content.



Please note:

To generate a preview of the replaced placeholder, the value needs to be filled independently of the setting that is used for the content of the placeholder.

## Define placeholders manually

1. Click + below the list of the used placeholders (1).
2. From the select list (*Select placeholder type*) select *Parameter linked General information placeholder* (2).
3. Adjust the one or more parameter(s) (3).
4. Select one or more general information and their setting(s) (4, 5).
5. Fill in a name between [...] (6).
6. Optional: configure delimiters for enumerations of included values (7).
7. Copy the name [...] into the content element (8).
8. Click *Save*.



### Possible next steps

- [Adding a placeholder](#)
- [Editing a placeholder](#)
- [Removing a placeholder](#)
- [Moving a content element](#)
- [Adding notes to content elements](#)

# Adding a parameter linked measurement placeholder

## How to get here

### Default way:

**Toolbar** > Data > **Content** > Operations: *Edit*

### Other ways:

- **Toolbar** > Data > Content > Operations: *View* > Edit
- **Toolbar** > Data > Content > Operations: *Parameters* > Edit
- **Toolbar** > Data > Content > Operations: *Workflow states* > Edit
- **Toolbar** > Data > Content > Operations: *Settings* > Edit
- **Toolbar** > Data > Content > Operations: *Translate* > Edit

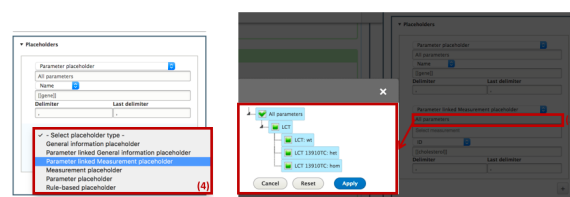
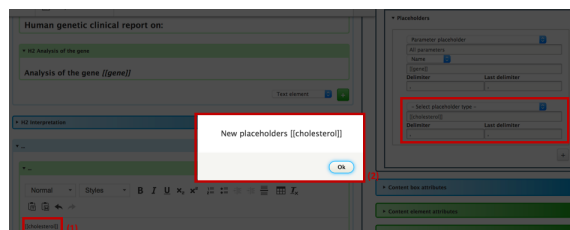
## Role

Content Editor

There are three different ways to add a parameter linked measurement placeholder to the **content**:

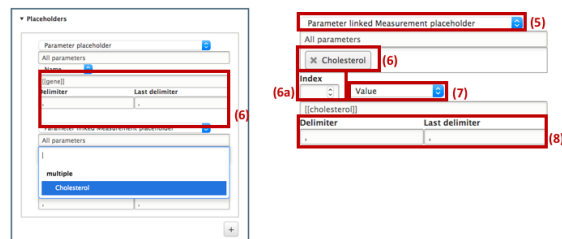
## Writing a content element

1. Write a string within a **content element** starting with `[[` and ending with `]]` (1)
2. Click somewhere outside the content element. A modal window opens confirming the new placeholder (2)
3. Click *OK* and the placeholder will be added to the list (3)
4. From the select list (*Select placeholder type*) select *Parameter linked Measurement placeholder* (4)
5. Adjust the parameter(s) for that the placeholder should be filled (5)
6. Adjust the measurement(s) (6a), select the setting(s) (6b). Optional: in case of *Multiple input elements*, select the index (6c). More than one selected measurement with multiple input is currently not supported.
7. Optional: configure delimiters for enumerations of included values.
8. Click *Save*.



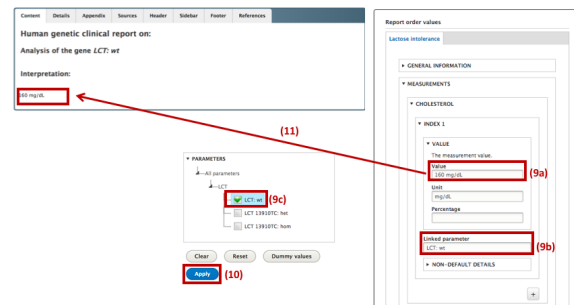
## Reusing a content element

1. **Adding content elements** which contains parameter linked measurement placeholders
2. A modal window opens confirming the new placeholders (2)
3. Click *OK* and the new parameter linked measurement placeholders will be added to the list (3)
4. From the select list (*Select placeholder type*) select *Parameter linked Measurement placeholder* (4)
5. Adjust the parameter(s) for that the placeholder should be filled (5)
6. Adjust the measurement(s) (6a), select the setting(s) (6b). Optional: in case of *Multiple input elements*, select the index (6c). More than one selected measurement with multiple input is currently not supported.
7. Optional: configure delimiters for enumerations of included values.
8. Click *Save*.



On the *View* tab:

8. Fill the value field and if desired the field of other settings of the measurement(s) (7a), select the right parameter in the parameter tree (7b)
9. Enter the external ID of the parameter (7c)
10. Click *Apply* (8)
11. The placeholder will be filled (9) in the content

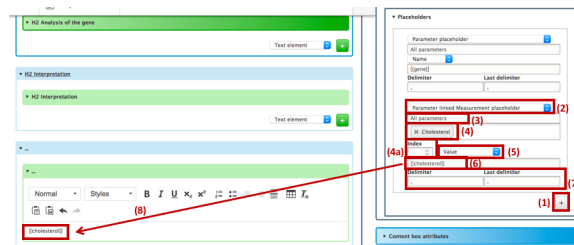


Please note:

To generate a preview of the replaced placeholder, the value needs to be filled independently of the setting that is used for the content of the placeholder.

## Define placeholders manually

1. Click **+** below the list of the used placeholders (1).
2. From the select list (*Select placeholder type*) select *Parameter linked Measurement placeholder* (2).
3. Adjust the one or more parameter(s) (3).
4. Select one or more measurement(s) and their setting(s) (4).
5. Fill in a name between [...] (5).
6. Copy the name [...] into the content element (6).
7. Optional: configure delimiters for enumerations of included values.
8. Click *Save*.



### Possible next steps

- [Adding a placeholder](#)
- [Editing a placeholder](#)
- [Removing a placeholder](#)
- [Moving a content element](#)
- [Adding notes to content elements](#)

# Editing a placeholder

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: *Edit*

### Other ways:

- [Toolbar](#) > Data > Content > Operations: *View* > Edit
- [Toolbar](#) > Data > Content > Operations: [Parameters](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Workflow states](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Settings](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Translate](#) > Edit

## Role

Content Editor

## Editing parameter placeholders

A [parameter placeholder](#) consists of three parts that can be modified:

1. Parameter [class](#): by default, *All parameters* is selected, but if it is necessary to exclude [parameters](#) in the replacement, the [parameter tree](#) can be opened and a more specific class can be set.
2. [Metadata field](#): by default, *Name* is selected, but any metadata field can be selected.
3. String: determines how the placeholder is labeled in the [content element](#). A string has to start with `[[` and end with `]]`.
4. optional: style the entire placeholder name in the content element by using [text editor features](#). The replaced placeholder will be delivered in the desired style.
5. optional: configure delimiters for enumerations of included values.

To connect placeholders with different parameter classes or metadata fields, select other options in the placeholder list of the content attributes.

## Editing general information placeholders

A [general information placeholder](#) consists of three parts that can be modified:

1. [General information](#): a list of all optional and required general information either listed with name or ID if no name is set. For a multiple selection hold *Ctrl* on your keyboard and select the general information of interest (1).
2. General information setting: by default, *Value* is selected, but any general information setting can be selected (2).
3. String: determines how the placeholder is labeled in the [content element](#). A string has to start with `[[` and end with `]]` (3).



4. optional: style the entire placeholder name in the content element by using [text editor features](#). The replaced placeholder will be delivered in the desired style.
5. optional: configure delimiters for enumerations of included values(4).

## Editing measurement placeholders

A [general information placeholder](#) consists of three parts that can be modified:

1. [Measurement](#): a list of all measurements either listed with name or ID if no name is set. For a multiple selection hold *Ctrl* on your keyboard and select the measurements of interest (1).
2. Measurement setting: by default, *ID* is selected, but any measurement setting can be selected (2).
3. String: determines how the placeholder is labeled in the [content element](#). A string has to start with `[[` and end with `]]` (3).
4. optional: style the entire placeholder name in the content element by using [text editor features](#). The replaced placeholder will be delivered in the desired style.
5. optional: configure delimiters for enumerations of included values (4).

## Editing parameter linked general information placeholders

A parameter linked general information placeholder consists of four parts that can be modified:

1. Parameter [class](#) or parameter: by default, *All parameters* is selected, but if it is necessary to exclude [parameters](#) in the replacement, the [parameter tree](#) can be opened and a more specific class can be set (1).
2. [General information](#): a list of all optional and required general information either listed with name or ID if no name is set. For a multiple selection hold *Ctrl* on your keyboard and select the general information of interest (2).
3. General information setting: by default, *Value* is selected, but any general information setting can be selected (3).
4. String: determines how the placeholder is labeled in the [content element](#). A string has to start with `[[` and end with `]]` (4).
5. optional: style the entire placeholder name in the content element by using [text editor features](#). The replaced placeholder will be delivered in the desired style.
6. optional: configure delimiters for enumerations of included values (5).

## Editing parameter linked measurement placeholders

A parameter linked measurement placeholder consists of four parts that can be modified:

1. Parameter [class](#) or parameter: by default, *All parameters* is selected, but if it is necessary to exclude [parameters](#) in the replacement, the [parameter tree](#) can be opened and a more specific class can be set (1).
2. [Measurement](#): a list of all measurements either listed with name or ID if no name is set. For a multiple selection hold *Ctrl* on your keyboard and select the measurements of interest (2).
3. Measurement setting: by default, *ID* is selected, but any measurement setting can be selected (3).
4. String: determines how the placeholder is labeled in the [content element](#). A string has to start with `[[` and end with `]]` (4).
5. optional: style the entire placeholder name in the content element by using [text editor features](#). The replaced placeholder will be delivered in the desired style.
6. optional: configure delimiters for enumerations of included values (5).

## Editing rule-based placeholders

A [rule-based placeholder](#) consists of four parts that can be modified:

1. a rule-based placeholder can be replaced by another placeholder type
2. The exclusion set can be changed whereby the placeholder can be linked with other content
3. String: determines how the placeholder is labeled in the [content element](#). A string has to start with `[[` and end with `]]`.
4. Content filled rule dependent into the placeholder can be changed or can be assigned to other rule-based placeholders by changing the exclusion set.

Please note:

- frame the placeholder with `{{[[ and ]]]}` within the text to use it as an [iterative placeholder](#)
- making rule-based placeholders iterative by adding curly braces is not supported
- [flexible placeholders](#) can be edited in the [content element](#) or [template](#) by changing the content manually

### Possible next steps

- [Adding a placeholder](#)
- [Editing a placeholder](#)
- [Removing a placeholder](#)
- [Moving a content element](#)
- [Adding notes to content elements](#)

# Removing a placeholder

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: *Edit*

### Other ways:

- [Toolbar](#) > Data > Content > Operations: *View* > Edit
- [Toolbar](#) > Data > Content > Operations: [Parameters](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Workflow states](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Settings](#) > Edit
- [Toolbar](#) > Data > Content > Operations: [Translate](#) > Edit

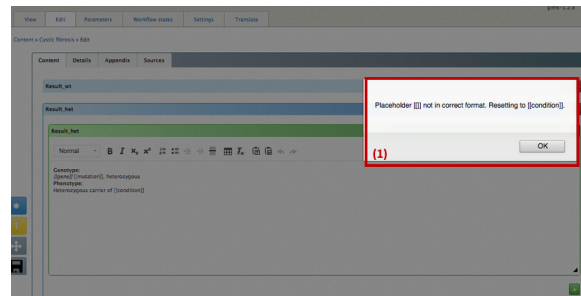
## Role

Content Editor

There are three different ways to remove a general or iterative [placeholder](#) from the [content](#).

## Removing a content element

When all [content elements](#) which have contained a specific [placeholder](#) are removed, the not needed placeholder is set empty. For details see [Removing content elements from content](#).



## Removing the string

When the placeholder string is removed in the [content element](#) containing the [placeholder](#), the not needed [placeholder](#) is set empty.

## Removing from the list

If there is no [content element](#) using this placeholder, the string in the list of placeholders in the right sidebar can be set empty.

If there is still a [content element](#) using this placeholder, a modal window opens with an error message. After clicking *OK*, the placeholder will be added again to the list (1).

## Removing a flexible placeholder

[Flexible placeholders](#) can be removed by deleting them in the content element or [template](#).

## Possible next steps

- [Adding a placeholder](#)
- [Editing a placeholder](#)
- [Removing a placeholder](#)
- [Moving a content element](#)
- [Adding notes to content elements](#)

# Report orders

# Report orders overview

## How to get here

### Default way:

[Toolbar](#) > Data > [Report orders](#)

## Role

Report Order Viewer

The list can be filtered by *Order ID*, *Orderer*, *Patient ID*, *Request received since*, *Response sent since* and *Processing status* (1).

The list shows the following information for each [report order](#)

- *order ID*: the delivered ID of the order
- *orderer*: the delivered name of e.g. the person or the institute that has ordered the content
- *requested report*: the title of the [content](#) which has the delivered [uuid](#), linked to this content with selected [parameters](#)
- *patient ID*: the delivered ID of the patient for whom the content is ordered for
- *request time*: time point of the last request
- *response time*: time point of the last response
- *order action*
- *processing status*
- operations: possible actions, for example *view*

The list can be sorted by clicking the corresponding title.

Report orders

Report orders

Order ID  Orderer  Patient ID  Request received since  Response sent since

Processing status

Apply

Order ID	Orderer	Requested report	Patient ID	Request time	Response time	Order action	Processing status	Operations
1	uat	Requested report not found.	1	Tue, 09/18/2018 - 11:52		Response delivered		<a href="#">View</a>
10070470_SENDEK_0	ZfH	Befundkarte PCS Laktoseintoleranz (German)	37636	Tue, 08/28/2018 - 13:34	Tue, 08/28/2018 - 18:36	Completed		<a href="#">View</a>
10070944_SENDEK_0	ZfH	Befundkarte PCS Laktoseintoleranz (German)	37738	Tue, 08/28/2018 - 13:04		Processing in RLS		<a href="#">View</a>
10070144_SENDEK_0	ZfH	Befundkarte PCS Stuhne (German)	37585	Fri, 08/17/2018 - 15:39	Fri, 08/17/2018 - 15:42	Completed		<a href="#">View</a>

## Possible next steps

- Title link: [Viewing content](#)
- View operation: [Viewing the report order](#)



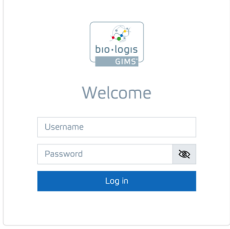
# Self service upload portal



# Login

## Log in

1. Enter the username
2. Enter the password (click on the 'eye symbol' in the password box to reveal or hide password)
3. Click *Log in*

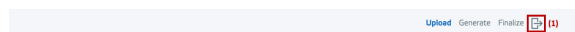


A screenshot of a login form titled 'Welcome'. It features a 'Username' input field, a 'Password' input field with an eye icon for toggling visibility, and a blue 'Log in' button.



## Log out

In the Menu bar of any given page, click *Log out* (1).



# Upload

## Upload data

1. Drag and drop data file in the file section or click on the section (1) to browse through the data files on the computer and select one or more files to upload.
2. ID's of the patients selected for upload are listed (2).
3. The files selected for upload are listed (3).

Please note:

- Multiple data files can be uploaded as described above. Valid formats are the xml, csv and vcf.
- Once out of the upload page, the overview of the files will not be visible anymore.
- A new upload will also overlay the data.

Upload genotype data

Upload Generate Finalize

Drop files here or browse (1)

Upload genotype data

Upload Generate Finalize

Drop files here or browse

Patients: 888-888, 111-911, some\_special\_variants (2)

test_complete.csv	Upload completed
testing_only_safe_genes.vcf	Upload completed
complete_with_some_noref_variants.vcf	Upload completed (3)

# Generate reports

Filter the file list to make your selection of patients for report generation:

1. Enter the Patient ID or
2. Enter the Request date
3. Click *Apply* (1)

Set language/s for the reports:

- the same for all patients from the *Report language* section above the grey line (2)
- individually for each patient (3)

Generate the report/s:

- for all patients at once by clicking the *Generate report* checkbox above the grey line (4)
- individually by clicking *Generate report* checkbox of each patient (5)
- click *Proceed* to generate the reports (6)

Please note:

Clicking the checkboxes is only possible after the language selection for the report.

Upload Generate Finalize

### Generate GIMS.pharma reports

Patient ID Request date End date **Apply** (1)

Patient ID	Request date	Report language	Generate report
<b>select for all</b>			
		german	<input type="checkbox"/>
		english	<input type="checkbox"/>
		select	<input type="checkbox"/>
mostly_ref	Fri, 24/05/2019 - 09:35		
some_special_variants			
	Mon, 27/05/2019 - 10:22	select	<input type="checkbox"/>
111-911	Mon, 27/05/2019 - 11:46	english	<input checked="" type="checkbox"/>
888-888	Mon, 27/05/2019 - 11:48	select	<input type="checkbox"/>

First Previous **Next** Last **Proceed** (6)

# Finalize reports

The list can be filtered by *Patient ID*, *Request date* and *Generation status* (1).

When the Generation status is '*Report generated*' (2), the report can be personalized:

1. Click *Input* in the *Personalization* column (3)
2. Optionally, fill in the form with the required information for personalization of the report and click *Submit* (4)

When the Processing Status is '*Report delivered*' (4), the report, the template for the Medication Safety Card and the cover letter with login data for the pharma.sensor app and webportal can be downloaded by clicking on the desired format (*odt* and/or *PDF*) (5).

Please note:

- Only patients with previously triggered report generation can be found in this list.
- The type of generated report and the language in which it was generated are displayed under the *Patient ID*.
- Only for reports, whose generation are completed, the 'Input' button is enabled for personalization (7).
- The data is saved and ready to download for 30 seconds, after which it is deleted.

The *Generation/Personalization Status*.

- is depicted by an icon
- can have different meanings

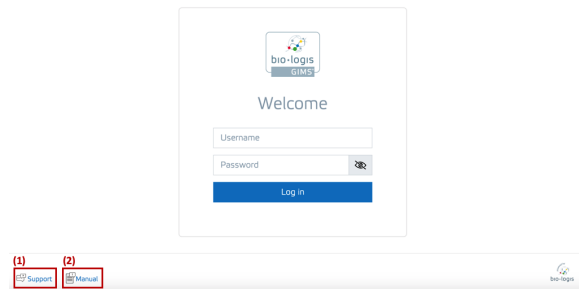
Generation status	Personalization status
✓ Report generated	✓ Report delivered
⌚ Report generation in progress	⌚ Report in progress
✗ Error	✗ Error

# Technical support

## Request technical support

To send a support request:

1. click on the *Support* icon (1)
2. the Service desk with the support categories is opened
3. type the issue in the designated section (3) or select a category (4) and fill in the form



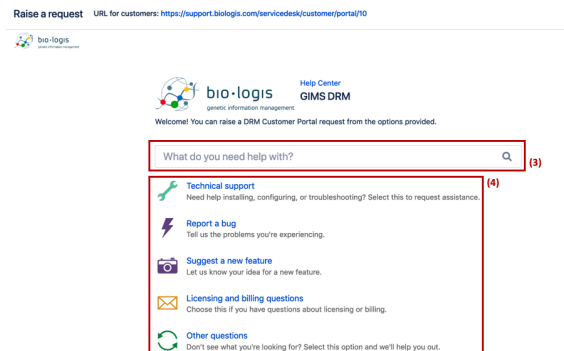
## Using the manual

To find a guidance for using the Self service upload portal:

1. click on the *Manual* icon (2)
2. the manual ist opened (PDF)
3. check the detailed handling of the system to find a request answer

Please note :

The *Support* and *Manual* icons can be found on every page in the lower left corner.



# Administrator Manual DRM

# Configuring users

# Viewing user list

## How to get here

### Default way:

[Toolbar](#) > Manage > People

## Role

User Administrator

The list can be filtered by name, email, [role](#), permission and status (1).

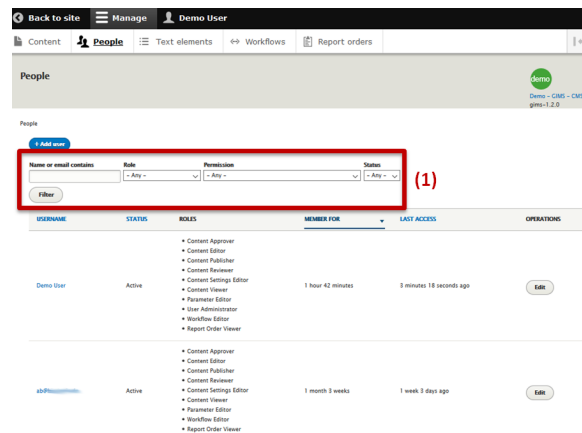
The list shows the following information for each [user](#)

- Username
- Status: active or blocked
- [Roles](#)
- Member for: time since account creation
- Last access: time since last login
- Operations: possible actions, for example *Edit*

The list can be sorted by clicking the corresponding title (available username, status and last access).

Please note:

The function is only available if you own the role 'User Administrator'.



## Possible next steps

- [Adding an user account](#)
- [free](#)
- [Viewing user profile](#)
- [Editing user profile](#)
- [Editing password](#)
- [Editing user profiles](#)
- [Editing user passwords](#)



# Editing user passwords

## How to get here

### Default way:

[Toolbar](#) > Manage > People > Operations: *Edit*

### Other ways:

[Toolbar](#) > Manage > People > username > *Edit*

## Role

User Administrator

1. Enter the new password into *Password*
2. The password strength shows the quality of the new password
3. Repeat the new password into *Confirm password*
4. It is shown whether the passwords are equal
5. Click *Save*

The screenshot shows the 'User Administrator' interface. At the top, there's a navigation bar with 'Back to site', 'Manage', and 'User Administrator'. Below this, there are tabs for 'Content', 'People', and 'Text elements'. The 'People' tab is active, showing a list of users. The 'Demo User' is selected, and the 'Edit' button is visible. The form for editing the user includes fields for 'Email address', 'Username', 'Password', and 'Confirm password'. The 'Password' field has a strength indicator. The 'Confirm password' field is required to match the 'Password' field. A note at the bottom states: 'To change the current user password, enter the new password in both fields.'

## Possible next steps

- *Viewtab:* [Viewing the profile](#)

# Editing user profiles

## How to get here

### Default way:

[Toolbar](#) > Manage > People > Operations: *Edit*

### Other ways:

[Toolbar](#) > Manage > People > username > *Edit*

## Role

User Administrator

## Modify the following settings

- E-mail address
- Username
- [Password](#)
- Status
- [Roles](#)
- Language settings
- Local settings

Click *Save*.

Please note:

The function is only available if you own the role 'User Administrator'.

user: Acceptance - testing (user) - GIMS 1.12

View Edit

Demo User » Demo User

**Current password**

Required if you want to change the Email address or Password below. [Reset your password.](#)

**Email address \***

Demo User@gim.biologisgroup.com

A valid email address. All emails from the system will be sent to this address. The email address is not made public and will only be used if you wish to receive a new password or wish to receive certain news or notifications by email.

**Username \***

Demo User

Several special characters are allowed, including space, period (.), hyphen (-), apostrophe ('), underscore (\_), and the @ sign.

**Password**

Password strength:

**Confirm password**

Passwords match:

To change the current user password, enter the new password in both fields.

**Status**

☐ Blocked

☒ Active

**Assignable roles**

- ☒ Content Approver
- ☒ Content Editor
- ☒ Content Publisher
- ☒ Content Reviewer
- ☒ Content Settings Editor
- ☒ Content Viewer
- ☒ Custom Style Editor
- ☒ Order processors editor
- ☐ Order processors viewer
- ☒ Parameter Editor
- ☒ Section Configurator
- ☒ Template Editor
- ☒ User Administrator
- ☒ Workflow Editor
- ☒ Report Order Viewer
- ☒ Template Approver
- ☒ Template Publisher
- ☒ Template Reviewer
- ☒ Content Element Approver
- ☒ Content Element Publisher
- ☒ Content Element Reviewer
- ☐ Content Element Settings Editor
- ☒ Content type administrator

The user receives the combined permissions of all roles selected here and the following roles: *Authenticated user, KMM User.*

**LANGUAGE SETTINGS**

**Site language**

☐ English ☒ [fr]

This account's preferred language for emails. This is also assumed to be the primary language of this account's profile information.

**LOCALE SETTINGS**

**Time zone**

☐ UTC ☒ [Paris]

Select the desired local time and time zone. Dates and times throughout this site will be displayed using this time zone.

**Save**

## Possible next steps

- [Editing user passwords](#)
- [Viewing the profile](#)



# Adding an user account

## How to get here

### Default way:

[Toolbar](#) > Manage > *People* > *Add user*

## Role

User Administrator

## Enter the required settings

- Username
- Password
- Confirm password

## Optional settings are

- Email address
- Status
- [Roles](#)
- Language settings
- Locale settings

Click *Create new account*.

A message about the account creation is displayed.

Please note:

The function is only available if you own the role 'User Administrator'.

## Possible next steps

- [Viewing the profile](#)

Back to site Manage User Administrator

Content People Text elements

### Add user

People » Add user

This web page allows administrators to register new users. User's email addresses and usernames must be unique.

**Email address**

A valid email address. All emails from the system will be sent to this address. The email address is not made public and will only be used if you wish to receive a new password or wish to receive certain news or notifications by email.

**Username \***

Several special characters are allowed, including space, period (.), hyphen (-), apostrophe ('), underscore (\_), and the @ sign.

**Password \***

**Password strength**

**Confirm password \***

**Passwords match**

Provide a password for the new account in both fields.

**Status**

☐ Blocked

☒ Active

**Roles**

☒ Administrative user

☐ Administrator

☐ Content Approver

☐ Content Editor

☐ Content Publisher

☐ Content Reviewer

☐ Content Settings Editor

☐ Content Viewer

☐ Password Editor

☐ User Administrator

☐ Workflow Editor

☐ Report Editor

☐ Report Order Viewer

☐ Notify user of new account

**LANGUAGE SETTINGS**

**Site language**

English

This account's preferred language for emails. This is also assumed to be the primary language of this account's profile information.

**LOCALE SETTINGS**

**Time zone**

Europe/Berlin

Select the desired local time and time zone. Dates and times throughout this site will be displayed using this time zone.

[Create new account](#)

People » Add user

✓ Created a new user account for *Another user*. No email has been sent.

# Configuring new content types

## How to get here

### Default way:

[Toolbar](#) > Manage > Structure > [Content types](#)

New content types can be configured when documents with a specific setting of sections are used more frequently. The sections can also be configured specifically for this content type.

1. Click *+ Add clinical report type* (1)
2. Enter the name of the content type. Optionally add a description, change the processor chain and link a template for this content type (2).

3. To configure the sections for the new content type, click *+Default sections* (3).
4. Click *Add another item* (4) and select the desired section. Repeat this process until all sections are in the list.
5. Click *Save configuration* (5).
6. Optional: to change the attributes of a section only for this content type, click *+Configure sections* (6).  
Click *Edit* (7) for the desired section and make changes of the section attributes (8).

## Role

Content Type Administrator

Content types		
Administration > Structure > Content types		
<a href="#">+ Add clinical report type</a> (1)		
Name	Description	Operations
Clinical Report		<a href="#">Edit</a>
Gene Card		<a href="#">Edit</a>
Genetic Counseling Report		<a href="#">Edit</a>
Page fragment		<a href="#">Edit</a>

### Add Clinical Report type

Administration > Structure > Content types > Add clinical report type

**Name \***  
Cytogenetics Machine name: cytogenetics (64)  
The human-readable name of this content type. This text will be displayed as part of the list on the *Add content* page. This name must be unique.

**Description**  
Contents of department Cytogenetics  
This text will be displayed on the *Add new content* page.

**Default processor chain**  
Default order processor chain

**Default template**  
Template Cytogenetics  
ODT template to render the content.

[Save content type](#) (2)

### Edit Cytogenetics content type

Administration > Structure > Content types > Cytogenetics

[+ Default sections](#) (3)

**Name \***  
Cytogenetics Machine name: cytogenetics  
The human-readable name of this content type. This text will be displayed as part of the list on the *Add content* page. This name must be unique.

**Description**  
Contents of department Cytogenetics  
This text will be displayed on the *Add new content* page.

**Default processor chain**  
Default order processor chain

**Default template**  
ODT template to render the content.

[Save content type](#)

### Default sections for Cytogenetics

Administration > Configuration > Content authoring > Sections > Default sections > Default sections for Cytogenetics

[+ Configure sections](#)

[Show row weights](#)

Default section	Weight
<a href="#">Add another item</a> (4)	

[Save configuration](#)

## Default sections for Cytogenetics

Administration » Configuration » Content authoring » Sections » Default sections » Default sections for Cytogenetics

+ Configure sections

Default section

+ Content (content)

Add another item

Save configuration (5)

## Default sections for Cytogenetics

Administration » Configuration » Content authoring » Sections » Default sections » Default sections for Cytogenetics

✓ The configuration options have been saved.

+ Configure sections (6)

Show row weights

Default section

+ Content (content)

Add another item

Save configuration

Configure sections for *Cytogenetics*

Label	Machine name	Operations
Content	content	Edit (7)

Configuration for *Cytogenetics*

Label \*

Content

Machine name: content

The name of a section can not be changed content specific.

Relevance \*

☐ Not included in checks for completeness

☒ Included in checks for completeness

How important the section is within the content

Display \*

☒ Full

☐ Folded

How the section is shown to the user

Save

(8)

7. The new content type is now available for [adding of new contents](#) (9).

## Add content

[Content](#) » Add content

➤ [Clinical Report](#)

➤ [Genetic Counseling Report](#)

➤ [Cytogenetics](#)  
Contents of Departement for Cytogenetics

(9)

➤ [Gene Card](#)

➤ [Page fragment](#)

### Possible next steps

- [Content overview](#)
- [Adding new content](#)
- [Configuring sections](#)
- [Configuring workflows](#)

# Configuring content



## Setting the used workflow

# Setting the workflow of contents

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: *Settings*

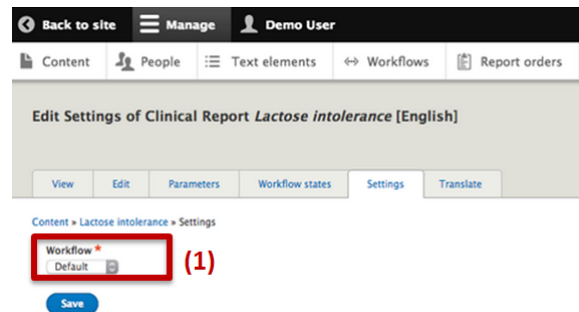
### Other ways:

- [Toolbar](#) > Data > Content > Operations: *View* > Settings
- [Toolbar](#) > Data > Content > Operations: *Edit* > Settings
- [Toolbar](#) > Data > Content > Operations: [Workflow states](#) > Settings
- [Toolbar](#) > Data > Content > Operations: [Parameters](#) > Settings
- [Toolbar](#) > Data > Content > Operations: *Translate* > Settings

## Role

Content Settings Editor

1. Select the [workflow](#) to use (1).
2. Click *Save*.



## Possible next steps

- [Setting the workflow of content elements](#)
- [Editing the content](#)
- [Viewing the parameters of the content](#)
- [Viewing the workflow states of the content](#)
- [Translating the content](#)

# Setting the workflow of content elements

## How to get here

### Default way:

[Toolbar](#) > Data > Text/Media elements > Operations: *Settings*

### Other ways:

- [Toolbar](#) > Data > Text/Media elements > Operations: *View* > Settings
- [Toolbar](#) > Data > Text/Media elements > Operations: *Edit* > Settings
- [Toolbar](#) > Data > Text/Media elements > Operations: *Workflow states* > Settings
- [Toolbar](#) > Data > Text/Media elements > Operations: *Parameters* > Settings
- [Toolbar](#) > Data > Text/Media elements > Operations: *Translate* > Settings

## Role

Content Element Settings Editor

1. Select the [workflow](#) to use (1).
2. Click *Save*.

Settings of content element *H1\_Human genetic clinical report* [English]

View	Edit	Workflow states	Settings	Revisions	Translate
------	------	-----------------	----------	-----------	-----------

Text elements » H1\_Human genetic clinical report » Settings

Workflow \*

Default

(1)

Save

## Possible next steps

- [Editing the setting of the content](#)
- [Editing the content](#)
- [Viewing the parameters of the content](#)
- [Viewing the workflow states of the content](#)
- [Translating the content](#)

# Setting the used template

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: *Settings*

### Other ways:

- [Toolbar](#) > Data > Content > Operations: *View* > Settings
- [Toolbar](#) > Data > Content > Operations: *Edit* > Settings
- [Toolbar](#) > Data > Content > Operations: *Workflow states* > Settings
- [Toolbar](#) > Data > Content > Operations: *Parameters* > Settings
- [Toolbar](#) > Data > Content > Operations: *Translate* > Settings

## Role

Content Settings Editor

1. Select the [template](#) by adding the filename (1).
2. Click *Save*.

The screenshot shows the GIMS interface with the following elements:

- Top navigation bar: Back to site, Manage, Demo User.
- Secondary navigation bar: Content, People, Text elements, Workflows, Templates, Report orders.
- Main title: Edit Settings of Clinical Report *Lactose intolerance* [English].
- Tabs: View, Edit, Parameters, Workflow states, Settings (selected), Translate.
- Breadcrumb: Content > Lactose intolerance > Settings.
- Workflow section: Default (selected), with a dropdown arrow.
- Template section: A dropdown menu labeled 'Template' with 'Default' selected. A red box highlights the dropdown menu, and a red circle with the number '1' is next to it.
- Save button: A blue button labeled 'Save'.

## Possible next steps

- [Generating a report preview](#)
- [Editing the setting of the content](#)
- [Editing the content](#)
- [Viewing the parameters of the content](#)
- [Viewing the workflow states of the content](#)
- [Translating the content](#)

# Default setting of general information

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: *Settings*

### Other ways:

- [Toolbar](#) > Data > Content > Operations: *View* > Settings
- [Toolbar](#) > Data > Content > Operations: *Edit* > Settings
- [Toolbar](#) > Data > Content > Operations: *Workflow states* > Settings
- [Toolbar](#) > Data > Content > Operations: *Parameters* > Settings
- [Toolbar](#) > Data > Content > Operations: *Translate* > Settings

## Role

Content Settings Editor

1. Choose between [Required](#) and [Protected General Information](#).
2. Click on *New General Information*.
3. Obligatory: add the laboratory specific ID.
4. Optional: add Status, Description, Domain, Name.  
Please note: Information are deposited here as default. If other, individual information are transmitted from the LIMS, these are used in the content.  
If no individual information are transferred, the DRM verifies whether a default is deposited and adds it to the data of this case.
5. Click *Save*.

The screenshot shows two sections: 'REQUIRED GENERAL INFORMATION' and 'PROTECTED GENERAL INFORMATION'. Each section has a 'NEW GENERAL INFORMATION' button and a 'Remove' checkbox. The 'REQUIRED' section is labeled (1) and (2), and the 'PROTECTED' section is labeled (1) and (2).

The screenshot shows the 'NEW GENERAL INFORMATION' form. It includes fields for ID, Status, Description, Domain, and Name, each with a red box highlighting the field and a number in parentheses: (3) for ID, (4) for Name, and (3) for the Status field. The form also includes a 'Remove' checkbox.

## Possible next steps

- [Editing the setting of the content](#)
- [Editing the content](#)
- [Viewing the parameters of the content](#)
- [Viewing the workflow states of the content](#)
- [Translating contents](#)



# Default setting of measurements

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: *Settings*

### Other ways:

- [Toolbar](#) > Data > Content > Operations: *View* > Settings
- [Toolbar](#) > Data > Content > Operations: *Edit* > Settings
- [Toolbar](#) > Data > Content > Operations: *Workflow states* > Settings
- [Toolbar](#) > Data > Content > Operations: *Parameters* > Settings
- [Toolbar](#) > Data > Content > Operations: *Translate* > Settings

## Role

Content Settings Editor

Choose between [Required](#) or [Optional Measurements](#)(1).  
Click on *New Measurement* (2).

Deposit the default settings:

1. Obligatory: add the laboratory specific *ID* (3).
2. Optional: add *Status*, *Description*, *Domain*, *Name* (4).
3. Optional: add *Unit* and/or *Percentage* for the expected value (5).
4. Optional: add *Value*, *Unit* and/or *Percentage* for a single reference value (*Discrete*, 6a) or for a reference range (*Minimum - Maximum*, 6b).
5. Optional: add *Unit* and/or *Percentage* for *Preceding Values* (7).

Please note: All optional information are deposited here as default. If other, individual information or values are transmitted from the LIMS, these are used in the content. If no individual information are transferred, the DRM verifies whether a default is deposited and adds it to the data of this case.

Click *Save*.

The screenshot displays the 'Content Settings Editor' interface. It features two main sections: 'REQUIRED MEASUREMENTS' and 'OPTIONAL MEASUREMENTS'. Each section has a 'NEW MEASUREMENT' button (labeled 2) and a 'Remove' button. Below these sections, there is a 'Define the measurements that are required to create the report.' section with a '+' button. A 'Save' button is located at the bottom of the 'OPTIONAL MEASUREMENTS' section. A detailed view of the 'NEW MEASUREMENT' form is shown below, with fields for 'ID' (labeled 3), 'Status', 'Description', 'Domain', and 'Name' (labeled 4). The 'ID' field is highlighted with a red box and labeled (3). The 'Status' field is highlighted with a red box and labeled (4). The 'Description' field is highlighted with a red box and labeled (4). The 'Domain' field is highlighted with a red box and labeled (4). The 'Name' field is highlighted with a red box and labeled (4). Below these fields are three sections: 'VALUE', 'REFERENCE VALUE', and 'PRECEDING VALUES'.

▼ **VALUE**

The measurement value.

Unit

Percentage

(5)

▼ **REFERENCE VALUE**

Reference value.

▼ **DISCRETE**

Discrete reference value.

Value

Unit

Percentage

(6a)

► **MINIMUM**

► **MAXIMUM**

(6b)

▼ **PRECEDING VALUES**

▼ **PRECEDING VALUE 0**

▼ **VALUE**

The measurement value.

Unit

Percentage

► **PRECEDING VALUE 1**

► **PRECEDING VALUE 2**

► **PRECEDING VALUE 3**

► **PRECEDING VALUE 4**

(7)

### Possible next steps

- [Editing the setting of the content](#)
- [Editing the content](#)
- [Viewing the parameters of the content](#)
- [Viewing the workflow states of the content](#)
- [Translating the content](#)



# Setting the used processor chain

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: *Settings*

### Other ways:

- [Toolbar](#) > Data > Content > Operations: *View* > Settings
- [Toolbar](#) > Data > Content > Operations: *Edit* > Settings
- [Toolbar](#) > Data > Content > Operations: [Workflow states](#) > Settings
- [Toolbar](#) > Data > Content > Operations: [Parameters](#) > Settings
- [Toolbar](#) > Data > Content > Operations: *Translate* > Settings

1. Select the desired [processor chain](#) from the dropdown menu (1).
2. Click *Save*.

## Role

Content Settings Editor

## Edit Settings of Clinical Report *Lactose intolerance* [English]

[View](#) [Edit](#) [Parameters](#) [Workflow states](#) [Settings](#) [Translate](#)

Content » Lactose intolerance » Settings

✓ This content translation is now locked by you against simultaneous editing.  
You can unlock it by clicking here: [unlock](#)

External ID

The unique ID identifying the clinical report in an external system, for example a LIS or KIS.

Workflow \*

Default

Processor chain

Default order processor chain

Template

ODT template to render the content.

## Possible next steps

- [Editing the setting of the content](#)
- [Editing the content](#)
- [Viewing the parameters of the content](#)
- [Viewing the workflow states of the content](#)
- [Translating the content](#)

# Configuring workflows

# Overview of workflows

## How to get here

### Default way:

[Toolbar](#) > Manage > [Workflows](#)

## Role

Workflow Editor

The list shows the available workflows for all components in the system.

- [Content elements](#)
- [Content](#)
- Report [Template](#)

For each [workflow](#) the following information is shown:

- label
- operations: possible actions, for example *edit*

## Possible next steps

- [Adding a new workflow](#)
- [Editing a workflow](#)

Workflows	
Workflow	
<a href="#">Add workflow</a>	
Content	
LABEL	OPERATIONS
Example	<a href="#">edit</a>
Default	<a href="#">edit</a>
New workflow	<a href="#">edit</a>
Report Template	
LABEL	OPERATIONS
Default Report Template	<a href="#">edit</a>

# Editing a workflow

## How to get here

### Default way:

[Toolbar](#) > Manage > [Workflows](#) > *Edit*

### Other ways:

[Toolbar](#) > Manage > [Workflows](#) > *Edit* > [Workflow Graph](#) > *Edit* > *Back to workflow*

## Role

Workflow Editor

The following options are available for editing workflows:

- **Label:** how the workflow is labeled in the [overview of workflows](#)
- **Workflow graph:** click the *Edit* button to [edit the workflow graph](#)
- **Change class:** changes of workflow states based on saving of modification in the content. Minor or major change can induce different workflow states for the parameter combinations. Define here whether and how far the affected parameter combination is reverted in the review process.
  - Minor changes are recommended for small changes such as spelling mistakes etc.
  - Major changes are recommended for adding new content or reorganization etc.
- for each combination of current **state** and change class the new **state** of the **content**
- **State** for new: the default [workflow state](#)
- **State** for publishing: the [workflow state](#) a **content** has to have in order to be delivered
- **Transition:** which **role** an **user** has to have in order to [change the workflow state of a content](#)
- Show a log message field when changing the workflow state of an entity: for each workflow state change it is possible to leave a message (1)
- **Fallback behavior:** 3 different states selectable for the publishing behavior of content elements in this document after changing
  - Do not fallback (default)
  - Fall back to the newest published revision
  - Fall back to the translation source if that is published

Click *Save*.

**Edit Workflow Default**

View Edit

Workflows > Default > Edit Default

Label \*

Default

WORKFLOW GRAPH

Edit

Change Class	in progress	reviewed	approved	published
Minor Change	In progress ▼	reviewed ▼	approved ▼	approved ▼
Major Change	In progress ▼	reviewed ▼	reviewed ▼	reviewed ▼

State for new  
in progress ▼

State for publishing  
published ▼

Transition	Content Approver	Content Publisher	Content Reviewer
review	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
approve	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
publish	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
unpublish	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

☐ Show a log message field when changing the workflow state of an entity.

Fallback behavior  
Do not fall back ▼

Select the fallback behavior when the latest revision of an entity is not published.

Save

**Workflow****Used workflow:**

Default

**Current state:**

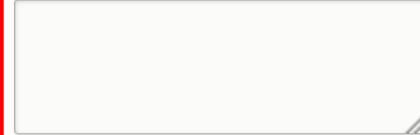
in progress

**Currently assigned to:**

-

**Possible new state(s): \***☒ reviewed [review]

(1)

**Change message**

Describe the details and the reason for the change.

**Change state****Possible next steps**

- [View a workflow graph](#)
- [Overview of workflows](#)
- [Adding a new workflow](#)

# Adding a new workflow

## How to get here

### Default way:

[Toolbar](#) > Manage > [Workflows](#) > *Add workflow*

## Role

Workflow Editor

1. Enter the label (1).
2. Select the type of components the workflow will be used for. For example *Content* should be used for clinical reports, recommendations, etc. (2).
3. Select the [workflow graph](#) to be used (3).
4. Decide whether the selected [workflow graph](#) should be used directly, or if a copy should be generated (4).
5. Optional: In case a new copy of the selected [workflow graph](#) is generated, give it its own label (4).
6. Optional: Choose to show a text area to allow tracking the rationale behind a workflow state change (5).
7. Click *Save*.

Workflows > Add workflow

Label \* (1)

Type \* (2)  
- Select -  
The type of workflow determines the roles that are required to change the workflow state.

Workflow Graph \* (3)  
Default  
Copy Graph  
If ticked, this workflow uses a copy of the selected graph, which can be modified independently of the original graph.

Graph label \* (4)  
Machine name: [ID]

Show a log message field when changing the workflow state of an entry. (5)

Save

Workflow

Used workflow:  
Default

Current state:  
in progress

Possible new state(s): \*  
reviewed [review]

Change message  
Describe the details and the reason for the change. (5)

Change state

## Possible next steps

- [View a workflow graph](#)
- [Overview of workflows](#)
- [Editing a workflow](#)

# View a workflow graph

## How to get here

### Default way:

[Toolbar](#) > Manage > [Workflows](#) > *Edit*

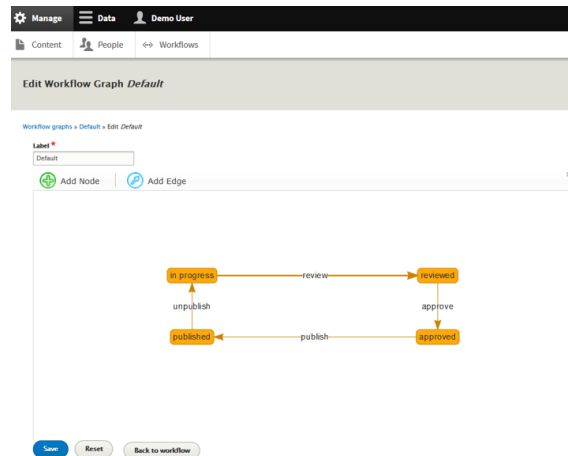
## Role

Workflow Editor

The [workflow graph](#) *Default* is predefined. Therefore, four workflow states are fixed, they can be renamed but they cannot be deleted. Arrows determine the chronological procedure of the workflow states. The workflow graph can be dragged and zoomed in.

To return to [workflow](#) click *Back to workflow*.

To modify the workflow graph see [Editing a workflow graph](#).



## Possible next steps

- [Adding a new workflow state](#)
- [Renaming a workflow state](#)
- [Moving a workflow state](#)
- [Removing a workflow state](#)
- [Adding a new workflow transition](#)
- [Renaming a workflow transition](#)
- [Moving a workflow transition](#)
- [Removing a workflow transition](#)

## Editing a workflow graph



# Adding a new workflow state

## How to get here

### Default way:

[Toolbar](#) > [Manage](#) > [Workflows](#) > [Edit](#) > [Workflow Graph](#) > [Edit](#)

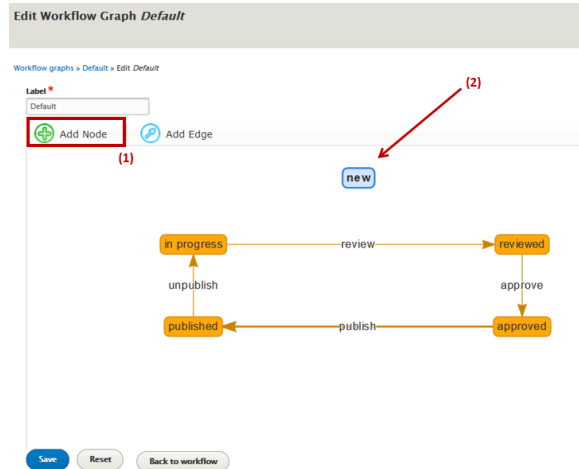
1. Click *Add Node* (1)
2. Click in an empty space into the workflow graph to place the new node.
3. A [workflow state](#) with the label *new* appears (2)

Note: the default [workflow states](#) are displayed orange, the custom [workflow states](#) are displayed blue.

Click *Save* to keep the changes or *Reset* to discard them.

## Role

Workflow Editor



## Possible next steps

- [View a workflow graph](#)
- [Renaming a workflow state](#)
- [Moving a workflow state](#)
- [Removing a workflow state](#)
- [Adding a new workflow transition](#)
- [Renaming a workflow transition](#)
- [Moving a workflow transition](#)
- [Removing a workflow transition](#)

# Renaming a workflow state

## How to get here

### Default way:

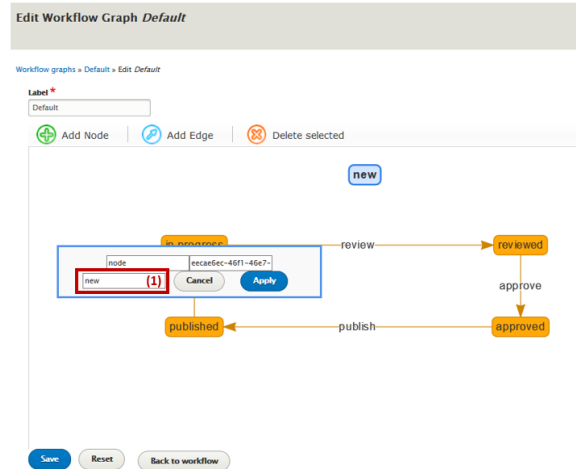
[Toolbar](#) > Manage > [Workflows](#) > *Edit* > [Workflow Graph](#) > *Edit*

1. Double click the new [workflow state](#)
2. In the modal window, enter the new name (1)
3. Click *Apply*

Click *Save* to keep the changes or *Reset* to discard them.

## Role

Workflow Editor



## Possible next steps

- [View a workflow graph](#)
- [Adding a new workflow state](#)
- [Moving a workflow state](#)
- [Removing a workflow state](#)
- [Adding a new workflow transition](#)
- [Renaming a workflow transition](#)
- [Moving a workflow transition](#)
- [Removing a workflow transition](#)

# Moving a workflow state

## How to get here

### Default way:

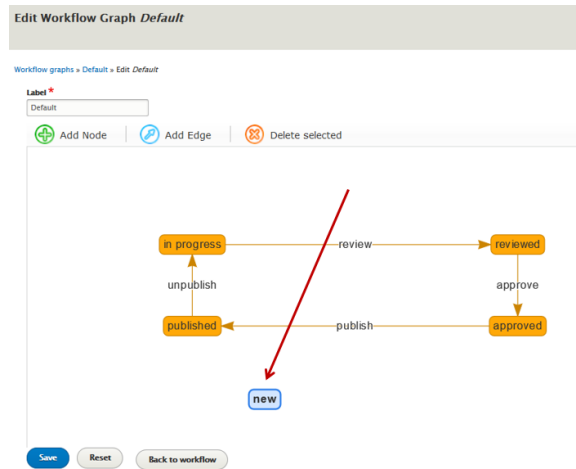
[Toolbar](#) > Manage > [Workflows](#) > *Edit* > [Workflow Graph](#) > *Edit*

## Role

Workflow Editor

The [workflow state](#) can be moved by dragging it.

Click *Save* to keep the changes or *Reset* to discard them.



## Possible next steps

- [Adding a new workflow state](#)
- [Renaming a workflow state](#)
- [View a workflow graph](#)
- [Removing a workflow state](#)
- [Adding a new workflow transition](#)
- [Renaming a workflow transition](#)
- [Moving a workflow transition](#)
- [Removing a workflow transition](#)

# Removing a workflow state

## How to get here

### Default way:

[Toolbar](#) > Manage > [Workflows](#) > *Edit* > [Workflow Graph](#) > *Edit*

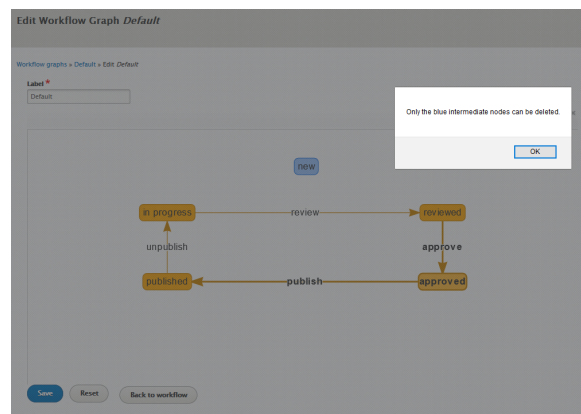
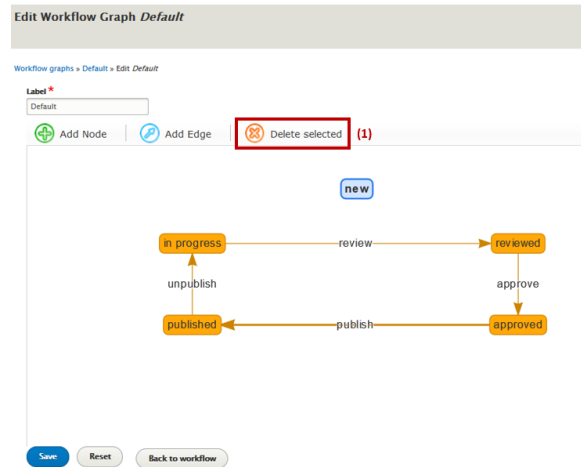
1. Click on the custom [workflow state](#)
2. Click on *Delete selected* (1)

Click *Save* to keep the changes or *Reset* to discard them.

Note: Only blue custom [workflow states](#) can be deleted. The orange predefined workflow states can not be deleted.

## Role

Workflow Editor



## Possible next steps

- [Adding a new workflow state](#)
- [Renaming a workflow state](#)
- [Moving a workflow state](#)
- [View a workflow graph](#)
- [Adding a new workflow transition](#)
- [Renaming a workflow transition](#)
- [Moving a workflow transition](#)
- [Removing a workflow transition](#)

# Adding a new workflow transition

## How to get here

### Default way:

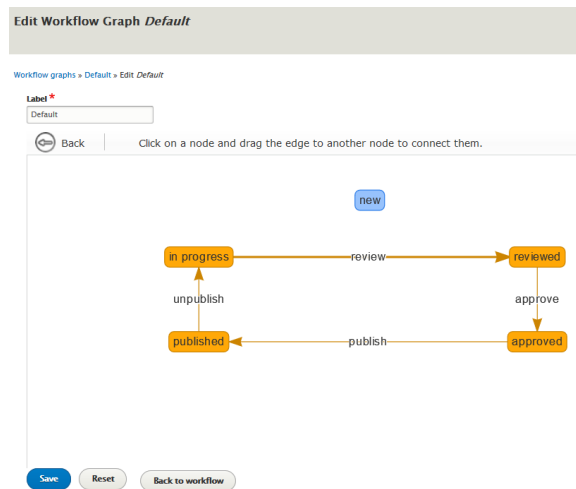
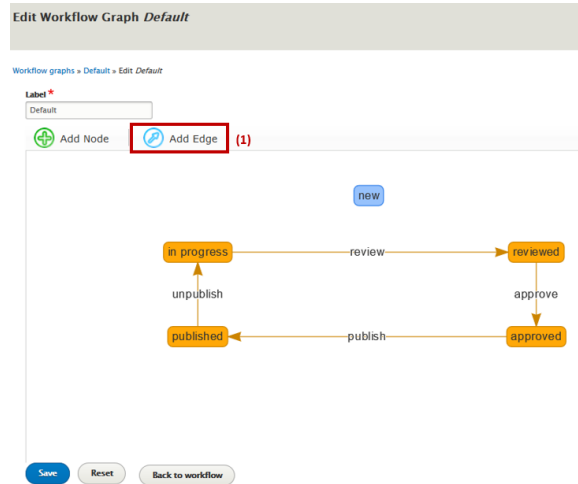
[Toolbar](#) > [Manage](#) > [Workflows](#) > [Edit](#) > [Workflow Graph](#) > [Edit](#)

1. Click *Add Edge* (1)
2. Click the [workflow state](#) where the new link should start
3. Drag the [workflow transition](#) to another workflow state to connect them

Click *Save* to keep the changes or *Reset* to discard them.

## Role

Workflow Editor

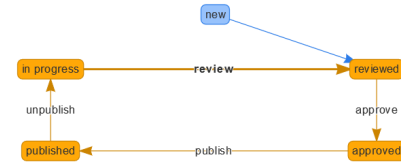


Edit Workflow Graph *Default*

Workflow graphs &gt; Default &gt; Edit Default

Label \*

Default



Save

Reset

Back to workflow

**Possible next steps**

- [Adding a new workflow state](#)
- [Renaming a workflow state](#)
- [Moving a workflow state](#)
- [Removing a workflow state](#)
- [View a workflow graph](#)
- [Renaming a workflow transition](#)
- [Moving a workflow transition](#)
- [Removing a workflow transition](#)

# Moving a workflow transition

## How to get here

### Default way:

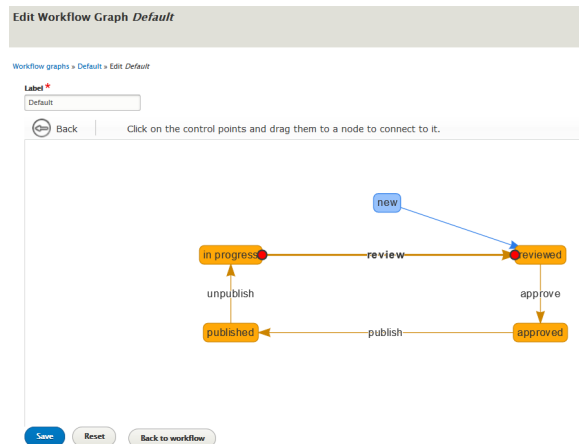
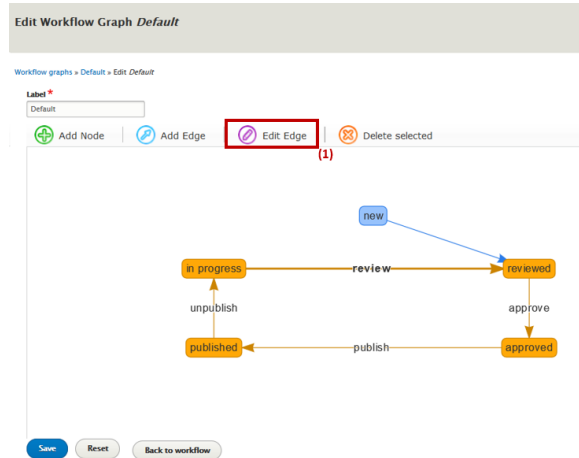
[Toolbar](#) > Manage > [Workflows](#) > *Edit* > [Workflow Graph](#) > *Edit*

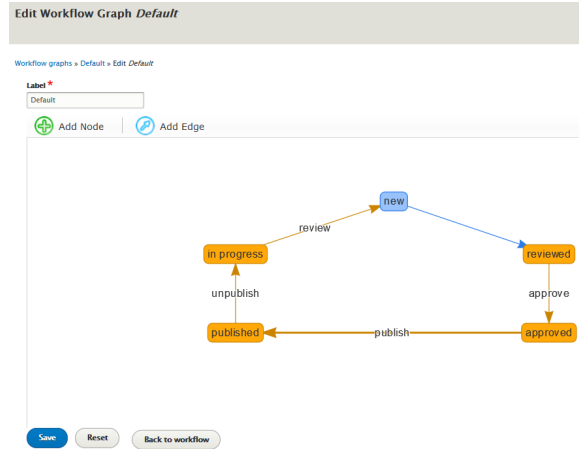
1. Click the [workflow transition](#)
2. Click *Edit Edge (1)*
3. Click one endpoint of the [workflow transition](#) and drag it to another [workflow state](#)

Click *Save* to keep the changes or *Reset* to discard them.

## Role

Workflow Editor





### Possible next steps

- [View a workflow graph](#)
- [Adding a new workflow state](#)
- [Renaming a workflow state](#)
- [Moving a workflow state](#)
- [Removing a workflow state](#)
- [Adding a new workflow transition](#)
- [Renaming a workflow transition](#)
- [Removing a workflow transition](#)



# Removing a workflow transition

## How to get here

### Default way:

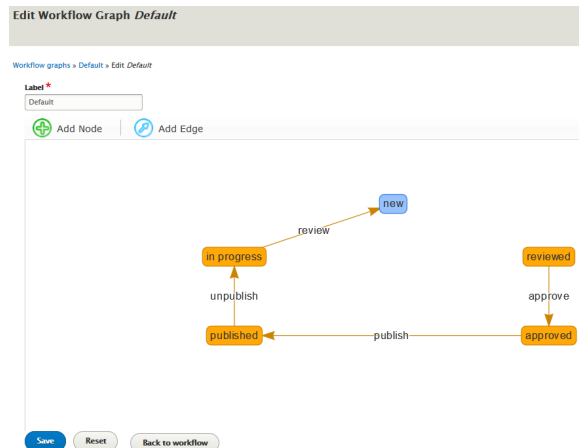
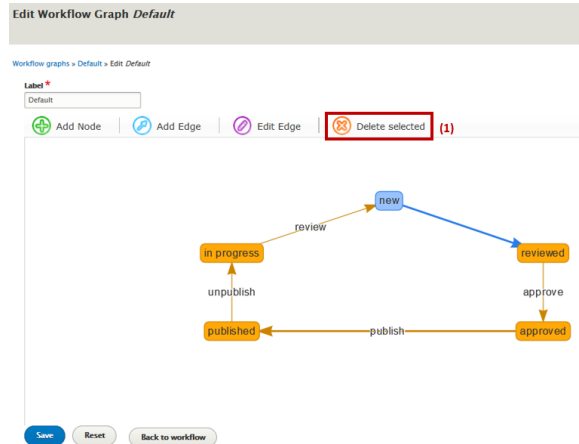
[Toolbar](#) > Manage > [Workflows](#) > *Edit* > [Workflow Graph](#) > *Edit*

1. Click the [workflow transition](#)
2. Click *Delete selected*(1)

Click *Save* to keep the changes or *Reset* to discard them.

## Role

Workflow Editor



## Possible next steps

- [View a workflow graph](#)
- [Adding a new workflow state](#)
- [Renaming a workflow state](#)
- [Moving a workflow state](#)
- [Removing a workflow state](#)
- [Adding a new workflow transition](#)
- [Renaming a workflow transition](#)
- [Moving a workflow transition](#)

# Renaming a workflow transition

## How to get here

### Default way:

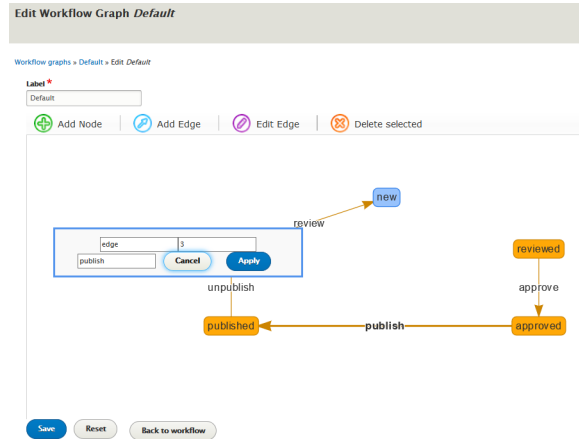
[Toolbar](#) > Manage > [Workflows](#) > *Edit* > [Workflow Graph](#) > *Edit*

1. Double click the [workflow transition](#)
2. In the modal window, enter the new name
3. Click *Apply*

Click *Save* to keep the changes or *Reset* to discard them.

## Role

Workflow Editor



## Possible next steps

- [View a workflow graph](#)
- [Adding a new workflow state](#)
- [Renaming a workflow state](#)
- [Moving a workflow state](#)
- [Removing a workflow state](#)
- [Adding a new workflow transition](#)
- [Moving a workflow transition](#)
- [Removing a workflow transition](#)

# Configuring custom styles

# Custom styles overview

## How to get here

### Default way:

[Toolbar](#) > Manage > Configuration > [Custom styles](#)

## Role

Custom Style Editor

The list shows the available [custom styles](#) that can be used for editing text. For each custom style the following is shown:

- Label
- ID: Used to define styling in templates.
- HTML class: Any text to which a custom style is applied will receive the respective class in the generated report.
- Color: Used to mark any text visible with a custom style in the *Edit* and *View* mode.
- Operations: Possible actions, for example *Edit* or *Delete*.

The list of custom styles can also be reordered by using drag-and-drop.

The order of the custom styles in the overview determines the order of custom styles displayed in the dropdown menu in [content elements](#) in the *Edit* mode.

Label	ID	HTML class	Color	Operations
Green	gims_rc_green	green	#008000	Edit
Red	gims_rc_red	red	#FF0000	Edit

## Possible next steps

- [Adding a new custom style](#)
- [Editing a custom style](#)
- [Deleting a custom style](#)

# Adding a new custom style

## How to get here

### Default way:

[Toolbar](#) > Manage > Configuration > [Custom styles](#)  
> [Add custom style](#)

## Role

Custom Style Editor

1. Enter the *Label*. The custom style will be available in the user interface with this name.
2. Enter the *HTML Class*. The HTML class is needed to identify the custom style when transferring it between different systems. It is suggested to use lowercase words connected with hyphens (e.g. Label: Product name, HTML class: product-name).
3. Select the *Color*. The custom style will be delivered in the user interface with this color.
4. Click *Save*.

Back to site Manage Data Demo User

Configuration People Workflows

### Add custom style

Administration > Configuration > Content authoring > Custom styles > Add custom style

Label

HTML Class

This class that will be added to the <span> element surrounding the selected text for this style. It is suggested to use lowercase words connected with hyphens. If the label is Product name, for example, a good HTML class would be product-name.

Color

This color that will be used to highlight the selected text for this style.

## Possible next steps

- [Custom styles overview](#)
- [Editing a custom style](#)
- [Deleting a custom style](#)

# Editing a custom style

## How to get here

### Default way:

[Toolbar](#) > Manage > Configuration > *Custom styles*  
> Operations: *Edit*

## Role

Custom Style Editor

Following features can be edited:

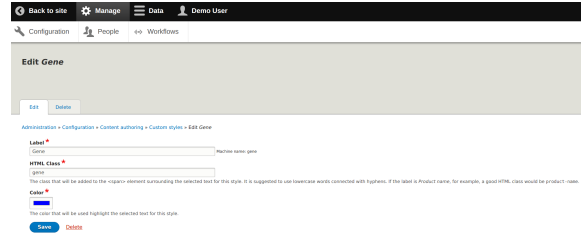
- label: How the custom style is labeled in the [custom styles overview](#).
- HTML class: The class that will be used for the custom style in the generated reports.
- color: The color that will be used to mark the custom style in the user interface.

Click *Save*.



## Possible next steps

- [Deleting a custom style](#)
- [Custom styles overview](#)



# Deleting a custom style

## How to get here

### Default way:

[Toolbar](#) > Manage > Configuration > [Custom styles](#)  
> Operations: *Delete*

### Other ways:

[Toolbar](#) > Manage > Configuration > [Custom styles](#)  
> Operations: *Edit* > *Delete*

Click *Delete* to remove a custom style from the list of the dropdown menu of available styles in the [content elements](#) in the text editor. Text marked with this style will not longer be labelled.

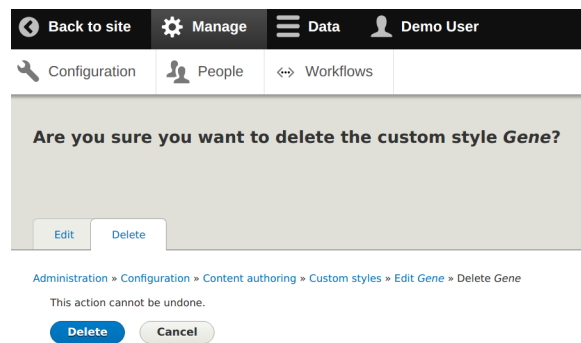
If you are certain you want to delete this style, click *Delete*.

## Possible next steps

- [Adding a new custom style](#)

## Role

Custom Style Editor



# Configuring sections



# Sections overview

## How to get here

### Default way:

[Toolbar](#) > Manage > Configuration > [Sections](#)  
> *Available sections*

## Role

Section Configurator

The list shows the available [sections](#) that can be integrated within content. For each section the following is shown:

- label: how the section is called within DRM
- [machine name](#): how the section is identified outside DRM (e. g. in [templates](#), in LIMS)
- operations: possible actions, for example *Edit*

Administration > Configuration > Content authoring > Sections > Default section configuration entities

[+ Add section](#)

LABEL	MACHINE NAME	OPERATIONS
Abstract	abstract	<a href="#">Edit</a>
Anamnesis	anamnesis	<a href="#">Edit</a>
Appendix	appendix	<a href="#">Edit</a>
Chances	chances	<a href="#">Edit</a>
Characteristic	characteristic	<a href="#">Edit</a>
Content	content	<a href="#">Edit</a>
Details	details	<a href="#">Edit</a>
Footer	footer	<a href="#">Edit</a>
Genetics	genetics	<a href="#">Edit</a>
Header	header	<a href="#">Edit</a>
Intro	intro	<a href="#">Edit</a>
Objective	objective	<a href="#">Edit</a>
Personal result	personal_result	<a href="#">Edit</a>
Planning	planning	<a href="#">Edit</a>

## Possible next steps

- [Adding a new section](#)
- [Editing a section](#)

# Adding a new section

## How to get here

### Default way:

[Toolbar](#) > Manage > Configuration > [Sections](#)  
> *Available sections*

- click *+ Add section* (1)
- enter the label of the [section](#) (2)
- the [machine name](#) will be generated automatically, optional: the machine name can be edited by clicking *Edit* (2a)
- select the relevance (3)
- select the display (feature not implemented yet) (4)
- click *Save* (5)

## Role

Section Configurator

Administration > Configuration > Content authoring > Sections > Default section configuration entities

+ Add section (1)		
LABEL	MACHINE NAME	OPERATIONS
Abstract	abstract	<a href="#">Edit</a>
Anamnesis	anamnesis	<a href="#">Edit</a>
Appendix	appendix	<a href="#">Edit</a>
Chances	chances	<a href="#">Edit</a>
Characteristic	characteristic	<a href="#">Edit</a>
Content	content	<a href="#">Edit</a>

## Add default section configuration

Administration > Configuration > Content authoring > Sections > Default section configuration entities > Add default section configuration

Label \*  
additional information Machine name: additional\_information [Edit] (2)

Relevance \*  
☐ Not included in checks for completeness  
☐ Included in checks for completeness  
 How important the section is within the content (3)

Display \*  
☐ Full  
☐ Collapsed  
 How the section is shown to the user (4)

[Save](#) (5)

## Add default section configuration

Administration > Configuration > Content authoring > Sections > Default section configuration entities > Add default section configuration

Label \*  
additional information

Machine-readable name \*  
additional\_information (2a)  
A unique machine-readable name. Can only contain lowercase letters, numbers, and underscores.

Relevance \*

## Default section configuration entities

Administration » Configuration » Content authoring » Sections » Default section configuration entities



The default section configuration *additional information* has been created.

+ Add section

LABEL	MACHINE NAME
Abstract	abstract
additional information	additional_information

**Possible next steps**

- [Set default set of sections for new content](#)
- [Adding a section to content](#)

# Editing a section

## How to get here

### Default way:

[Toolbar](#) > Manage > Configuration > [Sections](#)  
> [Available sections](#) > [Edit](#)

## Role

Section Configurator

- enter the label (1)
- select the relevance to determine whether it has to be included in checks for completeness (2)

#### *Included in checks for completeness:*

- the section contains the main information of the content.
- a warning is displayed if the content of the section is integrated incompletely in the document that shall be generated  
e.g. required general information are not delivered. In this case a warning is shown and therefore the report is not generated.

#### *Not included in checks for completeness*

- the section only contains additional information.
- a warning is never generated. Content is also delivered when parts of the section are missing.

- select the display (feature not implemented yet) (3)  
Choose *Full* if the section should always be fully shown when viewing or editing the content.  
Choose *Folded* if the section should only be opened when needed.
- click *Save* (4)

## Edit Abstract

Administration > Configuration > Content authoring > Sections > Default section configuration entities > Edit Abstract

The screenshot shows the 'Edit Abstract' form with the following elements and annotations:

- (1)** Points to the **Label \*** text input field containing 'Abstract' and the **Machine name:** 'abstract'.
- (2)** Points to the **Relevance \*** section, which includes two radio buttons: 'Not included in checks for completeness' (unselected) and 'Included in checks for completeness' (selected).
- (3)** Points to the **Display \*** section, which includes two radio buttons: 'Full' (selected) and 'Folded' (unselected).
- (4)** Points to the **Save** button at the bottom of the form.

## Possible next steps

- [Sections overview](#)
- [Adding a new section](#)
- [Integrating content](#)

# Set default set of sections for new content

## How to get here

### Default way:

[Toolbar](#) > Manage > Configuration > [Sections](#) > [Default sections](#)

## Role

Section Configurator

Define which set of sections shall be used for new [content](#) per default. Already existing content is not affected by changes made here.

- select the content type (1)
- optional: rearrange the sections by drag-and-drop
- optional: remove a sections by removing its label
- optional: add another section by clicking *Add another item* and using the autocomplete box (note: only sections listed in [sections overview](#) can be used) (2)

Click *Save configuration* (3).

## Default sections

[Administration](#) > [Configuration](#) > [Content authoring](#) > [Sections](#) > [Default sections](#)

➤ [Clinical Report](#)

➤ [Genetic Counseling Report](#)

➤ [Gene Card](#)

➤ [Page fragment](#)

(1)

## Default sections for Clinical Report

[Administration](#) > [Configuration](#) > [Content authoring](#) > [Sections](#) > [Default sections](#) > [Default sections for Clinical Report](#)

### DEFAULT SECTION

⬇ Content (content) ○

⬇ Details (details) ○

⬇ Appendix (appendix) ○

⬇ Sources (sources) ○

⬇ Header (header) ○

⬇ Sidebar (sidebar) ○

⬇  ○

Add another item

Save configuration

⬇

foot

Footer

Add another item

Save configuration

(3)

(2)

## Possible next steps

- [Adding a section to content](#)
- [Editing a section](#)

# Adding a section to content

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: *Settings*

### Other ways:

- [Toolbar](#) > Data > Content > Operations: *View* > Settings
- [Toolbar](#) > Data > Content > Operations: *Edit* > Settings
- [Toolbar](#) > Data > Content > Operations: *Workflow states* > Settings
- [Toolbar](#) > Data > Content > Operations: *Parameters* > Settings
- [Toolbar](#) > Data > Content > Operations: *Translate* > Settings

1. Select the new [section](#) (1)
2. Optional: rearrange the sections by drag and drop
3. Click *Save* (2)

Note: only sections listed in [overview of sections](#) can be used. If the section is not available yet, see [Adding a new section](#).

## Role

Content Settings Editor

**SEGMENTS**

- Content (content)
- Details (details)
- Appendix (appendix)
- Sources (sources)
- Header (header)
- Sidebar (sidebar)
- Footer (footer)

add  
additional information

+

Save

(1)

(2)

## Possible next steps

- [Editing the setting of the content](#)
- [Editing the content](#)
- [Viewing the parameters of the content](#)

- [Viewing the workflow states of the content](#)
- [Translating the content](#)



# Removing sections from existing content

## How to get here

### Default way:

[Toolbar](#) > Data > [Content](#) > Operations: *Settings*

### Other ways:

- [Toolbar](#) > Data > Content > Operations: *View* > Settings
- [Toolbar](#) > Data > Content > Operations: *Edit* > Settings
- [Toolbar](#) > Data > Content > Operations: *Workflow states* > Settings
- [Toolbar](#) > Data > Content > Operations: *Parameters* > Settings
- [Toolbar](#) > Data > Content > Operations: *Translate* > Settings

## Role

Content Settings Editor

1. Delete the name of the section to be removed (1,2)
2. Click Save

### Please note:

To remove a section from existing content the section should not contain any content boxes in all translations, otherwise the deletion is disabled (3). A message is created describing why the section could not be reconfigured.

**SECTIONS**

- This configuration cannot be edited as the corresponding section is currently referencing text boxes.
- 
- This configuration cannot be edited as the corresponding section is currently referencing text boxes.
- 
- (1)
- 
- (2)

**Sections**

+

Content (content)

This section cannot be removed as it contains content boxes in English, German.

(3)

+

Details (details)

+

Appendix (appendix)

+

Sources (sources)

This section cannot be removed as it contains content boxes in English, German.

(3)

### Possible next steps

- [Editing the setting of the content](#)
- [Editing the content](#)
- [Viewing the parameters of the content](#)
- [Viewing the workflow states of the content](#)
- [Translating the content](#)

## FAQ DRM

### 1) Why is it possible to select contradictory parameters simultaneously?

On a [parameter tree](#), it is possible to select several [parameters](#) at the same time even though they might contradict with each other (e.g. selecting parameters 'homozygous' and 'heterozygous'). This feature is designed purposefully to achieve the following:

- a) the user can define [rules](#) as 'at least two' of the given [parameters](#) even though they are contradictory with each other
- b) contradictory [parameters](#) can exist in context with [exclusions sets](#)
- c) the user is able to identify any erroneous data that might have possibly landed in DRM from LIMS/LIS.

### 2) Can I display a final layout of my content in the view tab?

In the view tab, you can select report order values and observe how this affects the display of the corresponding content boxes. You can either walk through different sections or choose display sections as show all. Generating a preview enables you to take a look at how your content will be integrated to your template for the selected report order values. On the other hand, the final layout depends on the receiving system (e.g. LIMS) that is unknown to GIMS. bio.logis GIM provides an add-on, Report Layout Engine (RLE), which serves as a 'content to layout converter'. Together with RLE and DRM you can request a final layout at your receiving system. This way, differently than generating a preview, you can also include patient specific data (possibly encrypted /decrypted) in your final layout.

### 3) Why should I use text editor features in content elements?

Defining various text editor features (e.g. bold, superscript, heading 3) in a given content box will mark the text for a matching format in final layout.

### 4) Why do I get an error message for setting my heading formats incorrectly?

Heading format can only be set following specific guidelines. Please follow the heading formatting instructions described in [Formats](#).

## 5) Why are the references allocated to a content box and not to a content element?

[References](#) can only be listed in a [content box](#) and not in a [content element](#). This is to ensure that one content element with specific references is not erroneously reused in an unrelated [content](#). References are placed in content boxes in a content-specific manner.

## 6) Why do only certain content boxes/elements automatically open in the Edit tab?

When switching from the View tab to the Edit tab, certain content elements/boxes automatically open. This reflects a certain selection of report order values in the View tab. Content boxes with the rule 'Always true' are always open in the edit tab.

## 7) How do I integrate personal information such as an indication into my report?

To integrate personal information into the delivered content a GIMS-LIMS interface is required. [General information](#) can be sent from LIMS to GIMS and can be directly included into [flexible placeholders](#) in the report.

## 8) How can I use DRM in a time-efficient manner, especially when there is a constant flow of new genetic variants?

You can avoid generating new rules, [parameter](#) trees, [content elements](#) every time a new variant arrives in DRM. For this, you should order the [classes](#) in your parameter tree with variants as different parameters. Next, you should use these classes to associate your content boxes with appropriate rules. The new variant can then be sorted as a new parameter in this tree. This way it is automatically involved with the corresponding rules/content boxes, which will in turn save time.

## 9) How can I delete rows or columns in a table?

Right-click into a table cell within the row or column, you want to delete. Select *Row/ Column* and click *Delete Row/ Delete Column*. Please note that this does not alter the cells of the header

## 10) Why is the outdated mark not set automatically for translations after editing a text element?

GIMS has been configured to handle translations independently, no synchronous processing is dictated after translation. This guarantees that not exactly the same number of [content elements](#) must be specified in all translations. In support of this

flexibility, the exact number of content elements in all the [translations](#) is not specified, but this also makes a direct [outdated](#) link impossible. An automatic outdated labelling is not wanted, since it does not distinguish between changes in content and linguistic reformulations which concern only one language.

## 11) Why do I have a non-replaced placeholder in the View tab?

Placeholders are replaced by their corresponding metadata (additional information like description, ID, name etc.) when their values are also applied. For example when the value (e.g. parameter value: LCT c.13910 T>C: hom) is missing the link to the metadata (e.g. phenotype: pathogenic) and hence the placeholder is also missing.

## 12) Why is my newly created tag/content element /translation not displayed in the search list?

It takes 5 to 10 minutes until newly created content appears in the search lists of the DRM. In case content is not displayed after 10 minutes, please check whether you have created your content correctly.

## 13) I would like to reuse one of my content elements by drag and drop. Why is it not displayed in the content box I have chosen?

The content element needs to be dropped exactly into the chosen content box. If it is dropped on the title or other areas of the content box, the content element might not be detected. In this case it would not be displayed.

## 14) Why are report order values prefilled and inactivated in the View tab?

In case identical variables are shared among contents that are integrated, values are taken over in downstream contents where they can not be changed. The entered values of these variables are saved even on the *View* tab of another content. Thus, values might be set already in an integrated content and previously set variables are locked until clicking the clear button.

## 15) When I am generating new computed general information or measurements, why is it not possible to set any dummy values for them?

GIMS DRM can compute general information and measurements based on other variables (e.g. sex can be computed via karyotype). For this reason it would be irrelevant to set any dummy value. Therefore dummy values are hidden when generating a computed general information or measurement.

# Glossary DRM

# Barcode element

Barcode element is a content element, which is converted into a QR code during report generation.



## Tip

Barcode elements can link to websites directly.

- contains plain text
- can include [placeholders](#) (iterative and flexible placeholders are not supported)
- can be tagged
- can have [notes](#)
- can be translated
- can be embedded in different sizes and positioning in the content
- does not support [text editor features](#)
- can wrap following [content elements](#)
- editing history can be traced at Revisions tab
- translations can be marked as [outdated](#)
- located on [content](#) within a [content box](#)
- displayed on the content view (as a barcode preview)
- read with a barcode scanner app

## Mentioned in

- [Adding content elements](#)
- [Content element](#)

# Change class

The change class describes the type of change that has been made.

- defined when saving [content](#) or [content element](#) while editing content
- possible values: minor, major
- depending on the predefined [workflows](#) for minor and major class saving can lead to a change of the workflow state for the selected and all other affected parameter combinations

## Mentioned in

- [Editing a content element](#)
- [Translating content elements](#)
- [Editing content](#)
- [Editing a workflow](#)



# Class

A class is a set of [parameters](#).

## Tip

It is recommended that the [rules](#) only contain classes and no explicit [parameter](#). This saves time writing [content](#) for new [parameters](#), when they only need to be sorted into their class.

- created by the [user](#)
- depicted with a closed folder in the [parameter tree](#)
- in each content, a preset class *All parameters* with all relevant [parameters](#)
- can be translated
- does not contain newly set [parameters](#)
- can be edited to make [metadata fields](#) visible or invisible
- can be operated by [rules](#)
- [placeholders](#) can use [metadata](#) of a class

## Mentioned in

- [Replacing a dummy parameter](#)
- [Adding and editing parameters](#)
- [Setting the rule of a content box](#)
- [Adding and editing a class](#)
- [Parameter overview](#)
- [Editing a placeholder](#)
- [Generating a parameter tree](#)

# Content

The content is a document, where all contents for a topic is managed. It defines what is delivered for a [report order](#).

**Tip**

Use a new content for each clinical question.

- identified by its [UUID](#)
- has a [content type](#)
- applying report order values determines content outputs
- consists of several [sections](#)
- can be translated
- editing history can be traced at Revisions tab
- can be locked (when opened by one user Edit, Parameter, Settings tabs are blocked for other users for 30 minutes; translations are not affected)

**Mentioned in**

- [Editing content](#)
- [Viewing content](#)
- [Report orders overview](#)
- [Inactivating a content box](#)
- [Translating contents](#)
- [Viewing content history](#)
- [Content overview](#)
- [Editing a content element](#)
- [Adding content elements](#)
- [Editing a placeholder](#)
- [Adding a new metadata field](#)
- [Editing a workflow](#)
- [Removing content elements from content](#)
- [Content locking](#)

# Content box

A content box is a space where you can place one or more [content elements](#) ([text](#), [media](#) or [barcode](#) elements)

- found under a [section](#) of the [content](#)
- can have a title (if no title has been deposited, the title of the top content element of the content box is displayed)
- has a [rule](#)
- can have [references](#)
- can be set inactive and not used in report generation even though its rule is fulfilled
  - inactive content boxes are marked by faded color in the *Edit* mode
- can belong to an [exclusion set](#)
- can include [sections](#) of other [contents](#)
- can be set includable and displayed as replacement for a [rule-based placeholder](#)
- can have a [CSS class](#) for further styling on report generation

## Mentioned in

- [Adding a content box to content](#)
- [Viewing content](#)
- [Moving a content box](#)
- [Using similar content elements](#)
- [Editing content](#)
- [Translating contents](#)
- [Adding content elements](#)
- [Setting an exclusion set to a content box](#)
- [Removing a content box from content](#)
- [Setting references to a content box](#)
- [Setting the rule of a content box](#)
- [Inactivating a content box](#)
- [Integrating content](#)
- [Adding a placeholder](#)

# Content element

A content element is the smallest unit of the [content](#). There are three types of content elements: [text elements](#), [media elements](#) and [barcode elements](#).

## Tip

In order to increase the reusability of content elements, it is recommended that the text contains only one statement.

- is located on [content](#) within a [content box](#)
- multiple content elements can be arranged side by side
- can have [notes](#)
- editing history can be traced at Revisions tab
- can be marked as [outdated](#)
- can be moved to other content boxes
- can have [tags](#)
- in case of [concurrent editing](#), the conflicts can be resolved individually

## Mentioned in

- [Viewing notes of content elements](#)
- [Editing content](#)
- [Moving a content element](#)
- [Editing a content element](#)
- [Using similar content elements](#)
- [Adding content elements](#)
- [Setting an exclusion set to a content box](#)
- [Editing a placeholder](#)
- [Translating contents](#)
- [Viewing content elements](#)
- [Removing content elements from content](#)
- [Managing content element revisions](#)
- [Adding notes to content elements](#)
- [Translating content elements](#)
- [Publishing content element](#)
- [Working with tags](#)

# Content integration

Content integration enables the insertion of [sections](#) of other contents into a defined position in the present content.



## Tip

Content integration allows separate management of report fragments. These independent fragments can later be assembled into a comprehensive clinical report.

- allows management of frequently modified [content elements](#) in one place (e.g. modifications on a header, footer or sidebar of a clinical report can be managed by integrating them as [page fragments](#))
- [sections](#) can be shared between more than one content
- [placeholders](#) filled with metadata from integrated sections are transferred identically into the target content

## Mentioned in

- [Integrating content](#)
- [Page fragment](#)

# Content type

A content type describes the kind of [content](#) and provides configuration of default settings.

- default is *Clinical report*
- has its own [section](#) configuration
- has its own [template](#) configuration
- has its own configuration of [processor chains](#)
- creation and configuration can only be done by an administrator

## Mentioned in

- [Adding new content](#)
- [Content overview](#)

# CSS class

A CSS class provides additional styling information for the report generation on a [content box](#).

- special feature which can be enabled on request
- the CSS class will be added to the output after the report is generated so additional styling can be done

Mentioned in:

- [CSS classes](#)

# Custom style

Custom styles allow to mark up parts of a text in [text elements](#) or captions of [media elements](#) with custom styling.



## Tip

Using custom styles enables a more individual formatting of [content elements](#).

- can be added or edited by the custom style editor
- is available in the text editor features > styles of content element
- has an associated color that is used to mark up the phrase in the content element.

Please note: Coloring is only a tool for the user to find the custom styled words more easily in the text. It does not correspond to the final format.

- marking a phrase with a custom style allows a special formatting for this text area by the Report Layout Engine or requesting system (e.g. LIMS, LIS)

## Mentioned in

- [Styles](#)
- [Configuring custom styles](#)



# Exclusion set

An exclusion set is a group of mutually exclusive [content boxes](#).

- not mandatory to use but recommended as it provides additional validation on the [content](#)
- indicates contradictory [content](#)
- if more than one [content box](#) of an exclusion set has its [rule](#) fulfilled, the report will not be processed
- each exclusion set has its own colored symbol

## Mentioned in

- [Setting an exclusion set to a content box](#)

# External ID

The external ID identifies a [parameter](#).

- is given by the ordering system (e.g. LIMS, LIS)
- cannot be set manually
- arbitrary string of up to 20 characters
- if an unknown external ID is received, a corresponding [parameter](#) is created

Mentioned in

- [Viewing a report order](#)

# Format

In addition to [sections](#), formats allow an improved structuring of the [content](#) in [text elements](#) which can be interpreted by the receiving system.

- available formats: Normal and Heading 1 to 6
- a [text element](#) may contain maximum one heading
- a [text element](#) may not contain normal text together with a heading

## Tip

Use different formats to structure your [content](#). For example, use Heading 1 and Heading 2 to list two text elements hierarchically.

## Mentioned in

- [Formats](#)

# General information

General information can be provided to DRM via an interface to a requesting system (e.g. LIMS, LIS). They can be inserted into the delivered content automatically.



## Tip

By generating content boxes that follow a general information-dependent rule, it is possible to prepare reports with case- or patient-specific data automatically.

- are case-specific data, e.g. patient age, sex or previous diagnoses
- can be included in [content elements](#) or [templates](#) by [placeholders](#)
- can be addressed in the [rule engine](#) effecting the delivery of diverse content for certain conditions
- can be required, protected, computed, linked to parameter(s) and/or multiple for input elements (for details see [General information](#))

## Mentioned in

- [General information](#)
- [Viewing content](#)
- [Default setting of general information](#)
- [Adding new general information](#)
- [Editing general information](#)
- [Removing general information](#)
- [Setting the rule for general information](#)
- [FAQ DRM](#)

# Inactive parameter

If a [parameter](#) is not needed anymore, it can be inactivated.  
An inactive parameter is not shown on the [parameter tree](#),  
in the Edit or View tabs.

- only possible if the [parameter](#) is not used in any [rule](#) or [placeholder](#) of the [content](#)
- is displayed gray on [overview of parameters](#)
- can be [reactivated](#)

## Mentioned in

- [Inactivating a parameter](#)
- [Reactivating a parameter](#)

# Machine name

A machine name allows the system to identify entities. It is similar to the label or title of an entity which is more readable for users, but may not be unique and contain special characters.

- how the [section](#) is identified in the receiving system (e.g. the LIMS or GIMS RLE)
- contains only lowercase letters, numbers, and underscores
- is unique

## Mentioned in

- [Generating a processor chain](#)
- [Adding a new section](#)
- [Section](#)
- [Sections overview](#)

# Measurement

Measurements can be provided to DRM via an interface to a requesting system (e.g. LIMS, LIS). They can be inserted into the delivered content automatically.



## Tip

By generating content boxes that follow a measurement-dependent rule, it is possible to prepare reports with case- or patient-specific data automatically.

- are case-specific results, e.g. blood values, ferritin levels
- can be included in [content elements](#) or [templates](#) by [placeholders](#)
- are inserted in a table
- can be addressed in the [rule engine](#) effecting the delivery of diverse content for certain measurement
- can be required, computed, linked to parameter(s) and/or multiple for input elements (for details see [Measurements](#))

## Mentioned in

- [Measurements](#)
- [Viewing content](#)
- [Default setting of measurements](#)
- [Adding new measurements](#)
- [Editing measurements](#)
- [Removing measurements](#)

# Media element

A media element is a specific [content element](#) which contains images with captions.



## Tip

Media elements can be managed in the image database, reused and edited in different contexts.

- the format of images are .jpg or .png, whereas the caption is restricted to html
- can be embedded in different sizes and positioning in the content
- following content elements can wrap it
- can be tagged
- can have [notes](#)
- reusable by integrating the same image
- is located in [content](#) within a [content box](#)
- caption can contain [placeholders](#)
- translatable
- editing history can be traced at Revisions tab
- translations can be marked as [outdated](#)

## Mentioned in

- [Viewing content elements](#)
- [Adding content elements](#)
- [Editing a content element](#)
- [Using similar content elements](#)
- [Adding notes to content elements](#)
- [Removing content elements from content](#)
- [Moving a content element](#)
- [Translating content elements](#)
- [Managing content element revisions](#)



# Metadata

Metadata are data that deliver additional information about a [parameter](#).

- inserted into the content via [placeholders](#)
- is set visible/hidden for a [class](#) of parameters
- more [metadata fields](#) can be [added](#)
- has a [context](#) where it is valid

Mentioned in

- [Replacing a dummy parameter](#)
- [Editing metadata of a parameter](#)

# Metadata context

Metadata context defines where the [metadata](#) of a [parameter](#) is valid.

- two contexts are available: global and local
- local metadata is saved per content
- global metadata is independent of the content
- local metadata has a higher priority than global metadata
- initially, a [parameter](#) has only global metadata
- [dummy parameters](#) have only local metadata

## Mentioned in

- [Replacing a dummy parameter](#)
- [Editing metadata of a parameter](#)

# Metadata field

A metadata field stores [metadata](#) of the [parameter](#).

## Tip

In order to be flexible with using [placeholders](#), it is recommended to store the [metadata](#) in several small fields instead of one big one.

- has a label
- can be translatable
- can contain multiple values
- generated globally, i.e. across all [contents](#)
- by default, it is set *hidden*

## Mentioned in

- [Adding a new metadata field](#)
- [Adding and editing parameters](#)
- [Adding and editing a class](#)
- [Editing a placeholder](#)

# Note

A note contains information about the [content element](#).



## Tip

Use notes on content elements to document why a specific change was made.

- notes are shown on all translations of content elements
- are deposited with date and author
- cannot be deleted

## Mentioned in

- [Viewing notes of content elements](#)
- [Adding notes to content elements](#)

# Order action

The order action describes the current step in the processing of a [report order](#).

- possible values
  - Created: a new [report order](#) is created
  - Reordered: an existing [report order](#) is reordered
  - Processed: the delivered [uuid](#) and [parameters](#) of the order are assigned to existing [content](#)
  - Waiting for RLE: the report order is ready for processing in the [report layout engine](#)
  - Processing in RLE: the report order is processed in the report layout engine
  - Finished / Response delivered: the processed [report order](#) is finished / delivered
  - RLE error: there was an error while creating the report in the report layout engine
- has a [processing status](#)

## Mentioned in

- [Viewing a report order](#)
- [Report orders overview](#)

# Outdated

A marker to indicate whether the corresponding [content element](#) needs to be updated.



## Tip

Mark content elements that need to be updated.

- Single translated content elements are automatically marked as outdated. The label can be resolved, if no changes are necessary. Otherwise content elements in translated contents are marked as outdated, too. The labelling is only cancelled, when the element is [approved](#).
- Mark other translations as outdated in case the content in other languages needs to be edited.
- Mark a published content element as outdated in case of literal mistakes.
- Mark a published content element and its translations as outdated in case of content-related mistakes.
- The outdated status corresponds to the [workflow state](#) of the content element:
  - A content element that is published loses the outdated marking. Remove the mark if the mistake is corrected by [publishing a content element translation](#).
  - An already published content element falls back into the content element workflow state 'in progress' when it is marked as outdated.

Please note: The workflow of content elements is defined independently of the workflow of contents. Therefore, publishing contents do not affect the workflow state of content elements included in the content and their marking as outdated. The workflow can be modified by the *Workflow Editor*, see [editing a workflow](#).

## Mentioned in

- [Viewing content elements](#)
- [Editing a content element](#)
- [Translating content elements](#)
- [Publishing content](#)

# Page fragment

Page fragment is a [content type](#) predefined for managing sections used in more than one content.

## Tip

The usage of placeholders in the section of page fragment creates dynamic elements, which can be used in more than one content. Depending on the data defined for the placeholders in the final content, a content specific report can be generated.

- [content elements](#) can be deposited into a section which is to be integrated to a target content
- sections with dynamic content e.g. sidebar, header or footer can be linked into other contents by [content integration](#)
- it is recommended to set up corresponding sections in the final content for each used page fragment, this facilitates assigning different styles to a section or the positioning of sections in the delivered content

## Mentioned in

- [Adding new content](#)

### Example:

The information for the sidebar of clinical reports can be set up as [content elements](#) in a page fragment and added by content integration in the provided sections of different clinical reports. Modifications of the page fragment section are directly available in all reports which use the page fragment.

# Parameter

A parameter is a patient-specific data that is transmitted to DRM (e.g. from a LIMS). It can be any patient-specific data (e.g. genetic testing results) other than general information (e.g. patient name) or measurement (e.g. blood ferritin level). A parameter associated with a [rule](#) determines the [content](#) output.

- identified by its [external ID](#)
- can be used on different [content](#)
- sorted with [classes](#) into a [parameter tree](#)
- presented by a file in the [parameter tree](#)
- can have [metadata](#)
- used for evaluating the [rules](#)
- used for replacing [placeholders](#)
- only generated for a [report order](#)
- if not yet available, a [dummy parameter](#) can be used
- can be set [inactive](#)

## Tip

Foremost, parameters are test results from the laboratory. They can be complemented by additional case-specific data, e.g. patient age, sex or previous diagnoses.

## Mentioned in

- [Publishing content](#)
- [Editing metadata of a parameter](#)
- [Adding and editing a class](#)
- [Viewing content history](#)
- [Viewing content](#)
- [Generating a parameter tree](#)
- [Editing a placeholder](#)
- [Replacing a dummy parameter](#)
- [Setting the rule of a content box](#)
- [Translating contents](#)
- [Viewing content workflow states](#)
- [Parameter overview](#)
- [Viewing a report order](#)
- [Overview of report orders](#)



# Dummy parameter

A dummy parameter is used in a content when the needed [parameter](#) is not yet available.



## Tip

Use dummy parameters to write content in advance.

- created by the [user](#)
- displayed in the [parameter tree](#) like a real parameter
- used in [rules](#), [placeholders](#), etc. like a real parameter
- can carry local [metadata](#)
- can be replaced with a real parameter

## Mentioned in

- [Replacing a dummy parameter](#)
- [Adding and editing parameters](#)
- [Generating a parameter tree](#)
- [Editing metadata of a parameter](#)

# Real parameter

A real [parameter](#) is an information, usually a result, which is transmitted to the DRM as a part of a report order, e.g. from a LIMS.

- not created by the [user](#)
- displayed in the [parameter tree](#)
- used in [rules](#) and [placeholders](#)
- can carry local and global [metadata](#)
- can be included in the parameter tree of other contents

## Tip

Real parameters, which already exist in a given DRM instance, can be reused directly in other contents.

## Mentioned in

- [Replacing a dummy parameter](#)
- [Adding and editing parameters](#)
- [Generating a parameter tree](#)
- [Editing metadata of a parameter](#)

# Parameter tree

A parameter tree represents the logical hierarchy of the [parameters](#) of the [content](#).

## Tip

It is recommended to sort [parameters](#) of the same type (for example genotype, phenotype) into a shared [class](#). Within these classes, subclasses for [parameters](#) which should lead to similar [content](#) output can be added.

- determines how efficiently the [content](#) can be written
- is the same for all translations of the [content](#)
- contains [parameters](#) and [classes](#)
- the root is the preset class *All parameters*
- new [parameters](#) are initially placed outside of the tree
- each [parameter](#) must be at the end of a branch
- below a [parameter](#), there can be no other [parameter](#) or [class](#).
- used for setting [rules](#) and [placeholders](#)

## Mentioned in

- [Generating a parameter tree](#)
- [Editing a placeholder](#)
- [Setting the rule of a content box](#)

# Placeholder

[Placeholders](#) can be used within a [content element](#) or [template](#) to create fields where case specific information can be brought directly from external systems, e. g. a LIMS.



## Tip

Use placeholders to increase the reusability of content elements.

Placeholders can be filled with backup information of:

1. [Parameters](#): backup information for parameters can be provided as [metadata](#).
2. [General Information](#): all information assigned to the general Information in the settings can be integrated as placeholders in the content element.
3. [Measurements](#): all information assigned to the measurements in the settings can be integrated as placeholders in the content element.

Mentioned in

- [Viewing placeholders](#)
- [Adding a placeholder](#)
- [Editing a placeholder](#)
- [Removing a placeholder](#)

Three types of placeholders with different functions are available:

1. [Placeholders](#) in general
2. [Iterative placeholders](#)
3. [Flexible placeholders](#)

Please note:

- Only letters (without umlauts), numbers and underscores are allowed for naming the placeholders. Special characters cannot be used.
- Styling of the entire placeholder is possible, but single areas can not be styled differently.
- Default values of general information or measurements are used for placeholders if no other value is transmitted from the requesting system (e.g. LIMS, LIS).
- Placeholders within integrated content will be filled with the information of their content ([content integration](#)).
- In case of enumerations in one placeholder, delimiters between the transferred values can be freely configured.

# Flexible placeholder

A flexible placeholder is a string in the [content](#) or [template](#) that will be replaced during the report generation by a value defined by the user (such as [general information](#) or [measurements](#)) manually or delivered automatically from a requesting system (e.g. LIMS, LIS).

- starts with [# and ends with #]

For [generating report previews](#):

- can be inserted in the [template](#) and in [content elements](#)
- is replaced for each newly generated report preview
- values are defined manually by the user during the report generation
- is deleted in the generated document if no value has been defined

For automated [report orders](#):

- can be inserted in content elements
- is still existent within the delivered report
- can be accessed and replaced by a requesting system (e.g. LIMS, LIS)



## Tip

Use the placeholders for values not saved within the GIMS.

Mentioned in

- [Template](#)
- [Generating a report preview](#)
- [Editing a placeholder](#)
- [Adding a flexible placeholder](#)

# Iterative placeholder

An iterative placeholder is an extension of placeholders to generate an automated (tabular) listing.

## Tip

With one placeholder, it is possible to list multiple metadata fields of parameters or settings of general informations, measurements.

- includes {{ before and }} after an existing placeholder
- only within a table or list (bulleted or numbered) in [content elements](#) available
- iterated over all selected parameters, general information or measurements to collect and list the selected metadata/settings
- for tables including both iterative placeholders and static content, the static content is replicated for each row
- the following placeholders can be converted to iterative ones:
  - [parameter placeholders](#)
  - [general information placeholders](#)
  - [measurement placeholders](#)

## Mentioned in

- [Adding an iterative placeholder](#)
- [Editing a placeholder](#)

# General information placeholder

A general information placeholder is a string in the [content](#) that will be automatically replaced by the assigned value of a given [general information](#).



## Tip

By using placeholders, it is possible to reduce the number of [content elements](#).

- consists of three parts
  1. [General information](#): with name or ID if no name is set
  2. General information setting: a list of all general information settings e.g. value, name, description
  3. String: how the placeholder is written in the text, has to start with [[ and end with ]]
- placeholders can be marked with [text editor features](#) for defining individual layout in the output

## Mentioned in

- [Editing a placeholder](#)
- [Adding a general information placeholder](#)

# Measurement placeholder

A measurement placeholder is a string in the [content](#) that will be automatically replaced by the value of the assigned measurement setting.

## Tip

By using placeholders, it is possible to reduce the number of [content elements](#).

- consists of three parts
  1. Measurement: with name or ID if no name is set
  2. Measurement setting: a list of all measurements settings
  3. String: how the placeholder is written in the text, has to start with [[ and end with ]]
- placeholders can be marked with [text editor features](#) for defining individual layout in the output

## Mentioned in

- [Editing a placeholder](#)
- [Adding a measurement placeholder](#)



# Parameter placeholder

A parameter placeholder is a string in the [content](#) that will be automatically replaced by the value of the assigned [metadata field](#) of the respective [parameters](#).



## Tip

By using placeholders, it is possible to reduce the number of [content elements](#).

- consists of three parts
  1. Parameter [class](#): per default, *All parameters* is selected, but if it is necessary to exclude [parameters](#) in the replacement, the [parameter tree](#) can be opened and a more specific class can be set
  2. [Metadata field](#): per default, *Name* is selected, but the value of any metadata field can be selected
  3. String: how the placeholder is written in the text, has to start with `[[` and end with `]]`
- placeholders can be marked with [text editor features](#) for defining individual layout in the output

## Mentioned in

- [Editing a placeholder](#)
- [Adding a parameter placeholder](#)

# Rule-based placeholder

A rule-based placeholder is an extension of placeholders to generate a variable, rule dependent paragraph in a content element independently of metadata.



## Tip

Rule-based placeholders can be used to generate lists or tables with rule dependent content.

- the string has to start with [[ and end with ]]
- available within text, a table or list (bulleted or numbered) in [content elements](#)
- can be linked to other [content boxes](#) by [exclusion sets](#)
- the placeholder is replaced with the content of the linked includable content boxes if their rules match. Only the content of the first content box with fulfilled rules is displayed.
- headings and tables cannot be used in includable boxes to prevent invalid nesting
- media and barcode elements are not supported in includable boxes
- the following placeholders can be incorporated into rule-based placeholders:
  - [parameter placeholders](#)
  - [general information placeholders](#)
  - [measurement placeholders](#)

## Mentioned in

- [Editing a placeholder](#)
- [Adding an rule-based placeholder](#)

# Processing status


The processing status describes the current state in the processing of a [report order](#).

## Tip


Look at the log messages for further details of the current order status.

- is depicted by an icon
- can have different meanings depending on the corresponding [order action](#)


Created:


 the order is created and pending for processing

Reordered:


 the reorder is pending for processing


Processed:

 the order could not be processed due to an error

 the order is processed and pending for delivery

Response delivered:

 an error occurred during the response delivery

 the response is delivered

Mentioned in

- [Viewing a report order](#)
- [Report orders overview](#)

# Processor chain

When a [content](#) has variables such as [parameters](#), [general information](#) or [measurements](#), a processor chain is used to provide their values.



Please contact your support to set up the processor chains depending on your set up.

- for each [content](#), a custom processor chain can be configured by the administrator
- can make highly specific information available like the chromosome aberration extracted from the karyotype
- general information or measurements that were generated by the processor chain from other variables are called computed

## Mentioned in

- [Setting the used processor chain](#)
- [Viewing content](#)

# Reference

A reference links to registered literature.

- is allocated to a [content box](#) and valid for all [content elements](#) in the respective content box
- can be defined in the right side bar within the *Content box attributes* on the *Edit* tab
- the last [section](#) of the [content](#) is automatically generated and contains all the references of all shown content boxes in their order of usage, assigned by number
- on the [content view](#), the assigned number of the references are shown below their content box

Mentioned in

- [Setting references to a content box](#)
- [Editing content](#)
- [Viewing content](#)

# Report order

A report order represents an external request of [content](#) for a set of [parameters](#).

- holds metadata of the request such as order ID, orderer, translation, patient ID
- is in an [order action](#)
- has an [processing status](#)

## Mentioned in

- [Viewing a report order](#)
- [Report orders overview](#)

# Role

A role defines a set of tasks the [user](#) is permitted to perform.



## Tip

Use roles to control what each [user](#) is allowed to do.

- The following roles and their permissions can be assigned to users:

Role	Permissions
Content Approver	approve <a href="#">content</a>
Content Editor	edit and translate <a href="#">content</a> and <a href="#">content elements</a>
Content Publisher	publish <a href="#">content</a>
Content Reviewer	review <a href="#">content</a>
Content Settings Editor	edit <a href="#">content</a> settings
Content Viewer	view <a href="#">content</a> with revisions and <a href="#">workflow states</a> , view <a href="#">content elements</a>
Custom Style Editor	add and edit <a href="#">custom styles</a>
Order Processor Chain Editor	add and edit <a href="#">processor chains</a>
Order Processor Chain Viewer	view <a href="#">processor chains</a>
Parameter Editor	administer <a href="#">parameters</a> and their <a href="#">metadata</a>
Report Order Viewer	view <a href="#">orders</a>
Section configurator	configure <a href="#">sections</a>
Template Viewer	view <a href="#">templates</a>
Template Editor	add and edit <a href="#">templates</a>
Template Approver	approve <a href="#">templates</a>
Template Publisher	publish <a href="#">templates</a>
Template	review <a href="#">templates</a>

## Mentioned in

- [Viewing user list](#)
- [Editing user profile](#)
- [Adding an user account](#)

Reviewer	
Content Element Approver	approve <a href="#">content element</a>
Content Element Publisher	publish <a href="#">content element</a>
Content Element Reviewer	review <a href="#">content element</a>
User Administrator	administer <a href="#">users</a> and their roles
Workflow Editor	view, add and edit <a href="#">workflows</a> and <a href="#">workflow graphs</a>



# Rule

A rule is evaluated by the Genetic Report Engine and defines under which circumstances which text should be displayed on the [content](#).

- is defined for each [content box](#) and valid for all [content elements](#) in the content box
- is shown on the [content view](#), when hovering over a [content box](#)
- can be defined in the right side bar within the *Content box attributes* on the *Edit* tab
- consists of different statements that are logically connected by OR or AND
- a statement can be *Always true*
- can include [parameters](#), [general information](#) and/or [measurements](#)

Mentioned in

- [Viewing content](#)
- [Setting the rule of a content box](#)
- [Translating contents](#)
- [Editing content](#)

- a statement can depend on the [parameters](#):

statement	TRUE if
<i>Results are in the <a href="#">parameter tree</a> selection</i>	at least one parameter is given which is one of the selected parameters or in one of the selected classes
<i>... with metadata y matching exactly z</i>	at least one of the given parameters of the selected parameters or in one of the selected classes have the value z for the metadata y
<i>Results are not in the <a href="#">parameter tree</a> selection</i>	no parameter is given which is one of the selected parameters or in one of the selected classes
<i>... with metadata y matching exactly z</i>	no parameter of the selected parameters or in one of the selected classes have the value z for the metadata y
<i>Results match at least x Parameter(s) in the <a href="#">parameter tree</a> selection</i>	at least x parameters are given which are of the selected parameters or in the selected classes
<i>... with metadata y matching exactly z</i>	at least x parameters of the selected parameters or in the selected classes have the value z for the metadata y
<i>Results match at least x Class(es) of the <a href="#">parameter tree</a> selection</i>	the given parameters belong to at least x of the selected classes
<i>Results match up to x Parameter(s) in the <a href="#">parameter tree</a> selection</i>	up to x parameters are given which are of the selected parameters or in the selected classes
<i>... with metadata y matching exactly z</i>	up to x parameters of the selected parameters or in the selected classes have the value z for the metadata y
<i>Results match up to x Class(es) of the <a href="#">parameter tree</a> selection</i>	the given parameters belong to up to x of the selected classes
<i>Results match exactly x Parameter(s) in the <a href="#">parameter tree</a> selection</i>	exactly x parameters are given which are of the selected parameters or in the selected classes
<i>... with metadata y matching exactly z</i>	exactly x of the given parameters have the value z for the metadata y
<i>Results match exactly x Class(es) of the <a href="#">parameter tree</a> selection</i>	the given parameters belong to exactly x of the selected classes
<i>Results match all Parameter(s) in the <a href="#">parameter tree</a> selection</i>	all parameters of the selected parameters or in the selected classes are given
<i>... with metadata y matching exactly z</i>	those parameters of the selected parameters or in the selected classes are given which have the value z for the metadata y
<i>Results match all Class(es) of the <a href="#">parameter tree</a> selection</i>	the given parameters belong to all of the selected classes

- a statement can depend on [measurements](#):
  - for comparing the value of a measurement m with a reference value
  - a reference value can be
    - a *Custom value* (defined in the input field 'custom value')
    - the *Alarm* value
    - a *Reference value* (either *Discrete*, *Maximum* or *Minimum*)

- one of the five *Preceding values*
- the '*custom value*' input field is just required if *Custom value* is selected

statement	TRUE if
<i>Measurement m &gt; Custom value 20</i>	the value of measurement m is greater than the user defined value '20'
<i>Measurement m = Discrete</i>	the value of measurement m equals the discrete reference value
<i>Measurement m &lt; Minimum x 20 %</i>	the value of measurement m is smaller than '20' % of the minimum reference value

- a statement can depend on **general information**:
  - for comparing the value of a general information g with a user defined value

statement	TRUE if
<i>General information g is true</i>	a value is set for general information g
<i>General information g equals male</i>	the value of general information g equals 'male'
<i>General information g contains al</i>	the value of general information g contains 'al'
<i>General information g starts with ma</i>	the value of general information g starts with 'ma'
<i>General information g ends with le</i>	the value of general information g ends with 'le'

- a statement can depend on **parameters** and **general information**
- a statement can depend on **parameters** and **measurements**
- if the content should never be shown, it can be set inactive

# Section

[Content](#) is managed per sections for a better overview.  
Sections of the same document can have different attributes.

## Tip

The receiving system can decide which sections to use and in which order. It can also add other content between the received sections.

- has a label
- has a [machine name](#) (only alphabetic characters) by which it is identified in the receiving system (e.g. LIMS, GIMS RLE)
- shown as tab or consecutively when [viewing content](#)
- shown as tab when [editing content](#)
- can get individual layout stylings
- can be [integrated](#) into another content
- can be marked as relevant, so that it will be included in checks for completeness (e.g. a given parameter might be relevant for one section and obsolete for another section at the same time)
- can be edited
- new sections can be added
- the last section is automatically generated and contains the [references](#)
- number and names of sections depend on the [content type](#)
- it is possible to switch between sections without saving previous changes
- removal of a section is possible only when none of its translations contain any content

## Mentioned in

- [Viewing content](#)
- [Editing content](#)
- [Moving a content box](#)
- [Adding a content box to content](#)
- [Integrating content](#)
- [Template](#)
- [Set default set of sections for new content](#)
- [Sections overview](#)
- [Editing a section](#)
- [Adding a section to content](#)
- [Adding a new section](#)
- [Configuring sections](#)

# Tag

Tags group different [content elements](#) with all their translations to enable filtering.



## Tip

Use tags on content elements to manage content with similar topics.

- free tagging of content elements
  - already existing tags in dropdown menu offered
  - multiple tagging by lists possible
- linked to a specific ID
- filtering by single tags or combined search with further tags and /or other filter options

## Mentioned in:

- [Working with tags](#)
- [Text elements overview](#)
- [Media elements overview](#)

# Test drive

A clone of the productive DRM environment for testing purposes.

- accessible via [https://\[YOUR\\_GIMS\\_URL\]/testdrive](https://[YOUR_GIMS_URL]/testdrive)
- isolated from the the productive instance
- upon request, all changes to the content are erased and replaced by the latest productive data

## Tip

The test drive environment of DRM is very useful to try new features or to test the communication between a requesting system (e.g. LIMS, LIS) and GIMS.

## Mentioned in

- [Using the test drive environment](#)

# Text element

A text element is a specific [content element](#) which contains the actual text.



In order to increase the reusability of text elements, it is recommended that the text contains only one statement.

- the [format](#) is restricted html
- can contain [placeholders](#)
- can have [notes](#)
- reusable: can be used several times within the same [content](#) as well as in other contents
- is located on [content](#) within a [content box](#)
- translatable
- editing history can be traced at Revisions tab
- translations can be marked as [outdated](#)

## Mentioned in

- [Using similar content elements](#)
- [Adding content elements](#)
- [Viewing a text element](#)
- [Translating content elements](#)

# Toolbar

The toolbar contains the entry points for all major tasks.

- can be hidden
- can be moved

Mentioned in

- [Using the toolbar](#)

# Translation element

A translation element is a specific [content element](#) which contains the actual text.

Translation elements differ from other content elements. Since their content is imported there are some exceptions for translation elements:

- they are only visible in the [Translation elements overview](#) list
  - they can not be added manually to the content but are imported upon request
  - [translations are automatically generated if content is translated into a new language](#)
  - it is not possible to edit or reuse translation elements or to add notes to them in the content
- 
- the [format](#) is restricted html
  - editing history can be traced at Revisions tab
  - translations can be marked as [outdated](#)
  - translation elements that are imported and not meant to be edited in GIMS DRM, can be locked

## Mentioned in

- [Translation elements overview](#)
- [Viewing a translation element](#)
- [Editing a translation element](#)



# User

A user is a person or a system that has access to GIMS.



## Tip

Do not share a login credentials with other users in order to have a reliable version history.

- needs name and password for logging in
- has [roles](#)
- has a status: active (is allowed to log in) or blocked (cannot log in)
- changes to content or workflows made by the user are traceable

## Mentioned in

- [Using the toolbar](#)
- [Content overview](#)
- [Viewing user list](#)
- [Publishing content](#)
- [Viewing content history](#)
- [Viewing content workflow states](#)
- [Editing a workflow](#)

# UUID

The uuid is the unique universal identifier of the [content](#).

- is automatically given to new [content](#)
- same for all content translations
- needed by the requesting system (e.g. LIMS, LIS)

Mentioned in

- [Content overview](#)
- [Report orders overview](#)

# Warning

A warning informs the [user](#) that a [content](#) is incomplete or contradictory and prevents changing the [workflow state](#).

- [troubleshooting](#) lists all possible warnings and how to react

## Mentioned in

- [Viewing content](#)
- [Viewing content workflow states](#)
- [Publishing content](#)

# Workflow

The workflow defines release processes, consisting of several states, which guarantee that content components are reviewed several times by differently authorized users before they are published and made available for report generation.

It describes how and when components pass the different states of the [workflow graph](#) before being published for delivery.

- can be used for different components (e.g. [content](#), [template](#) or [content element](#))
- consists of a [workflow graph](#) with configuration
- each content can have its own workflow
- a default workflow is provided on installation
- defines which [workflow state](#) is considered published
- defines which [workflow state](#) is used as default
- defines the [workflow state](#) to which [content](#) is reset after being edited, depending on the [change class](#)
- defines which [role](#) is allowed to do which [workflow transition](#)

## Mentioned in

- [Viewing content workflow states](#)
- [Overview of workflows](#)
- [Publishing content](#)
- [Publishing content element](#)
- [Publishing a template](#)
- [Setting the used workflow to content](#)

# Workflow graph

A workflow graph describes the different states [content](#) can be in.

- consists of [workflow states](#) and [workflow transitions](#)
- a default workflow graph is provided on installation
- can be used by different [workflows](#)
- has to contain at least the four preset [workflow states](#)

## Mentioned in

- [Adding a new workflow](#)
- [Editing a workflow graph](#)
- [Editing a workflow](#)

# Workflow state

A workflow state describes where [content](#) is in process of publishing.

- [content](#) can be in different workflow states depending on the [parameter](#) selection
- the [workflow](#) defines which workflow state is considered published
- the [workflow](#) defines which workflow state is used as default
- the [workflow](#) defines into which workflow state [content](#) falls after being edited, depending on the [change class](#)
- the most recently published version is delivered, in case content is into a non-published state
- default workflow states are displayed orange
- custom workflow states are displayed blue

## Mentioned in

- [Moving a workflow state](#)
- [Renaming a workflow state](#)
- [Adding a new workflow transition](#)
- [Moving a workflow transition](#)
- [Viewing content workflow states](#)
- [Adding a new workflow state](#)
- [Removing a workflow state](#)
- [Editing a workflow](#)

# Workflow transition

A workflow transition defines which [workflow state](#) follows another [workflow state](#).

- the [workflow](#) defines which [role](#) is allowed to do which workflow transition
- [warnings](#) prevent the transition

## Mentioned in

- [Adding a new workflow transition](#)
- [Editing a workflow](#)
- [Removing a workflow transition](#)
- [Moving a workflow transition](#)
- [Renaming a workflow transition](#)

# Troubleshooting DRM

Problem	Message	Possible reason	how to react
Warning on <a href="#">content view</a> .	Incomplete content detected: No influence by <a href="#">parameter</a> "parameter".	The <a href="#">parameter</a> does not influence the output of the <a href="#">content</a> and is therefore not needed.	<a href="#">Inactivating the parameter</a> .
		The <a href="#">parameter</a> should influence the output of the <a href="#">content</a> which has to be edited.	<a href="#">Editing the content</a> , for example changing <a href="#">rules</a> to consider the parameter, or adding new text.
	Contradictory content detected: " <a href="#">content box 1</a> " and " <a href="#">content box 2</a> " of the same <a href="#">exclusion set</a> were matched.	One of the content boxes should not be displayed, as their text is contradictory.	<a href="#">Editing the rules</a> of at least one of the content boxes.
		The content boxes should both be displayed, as their content is not contradictory, and must not be in the same <a href="#">exclusion set</a> .	<a href="#">Editing the exclusion set</a> of at least one of the content boxes.
	Incorrect headings: heading is the first heading on the <a href="#">section</a> and has to be "Heading 1" or "Heading 2".	The level of the first headings is too high.	<a href="#">Editing the content</a> , so that the headings do not prevent the delivery of valid HTML.
	Incorrect headings: <i>heading</i> . Just one "Heading 1" allowed per <a href="#">section</a> .	More than one heading 1 per <a href="#">section</a> .	
	Incorrect headings: <i>heading 1</i> is a "Heading x" and must not follow the "Heading y" <i>heading 2</i> .	The level of headings has to either remain, decrease or increase by 1: $x \leq (y+1)$	
Cannot <a href="#">select a new workflow state</a> .		There are <a href="#">warnings</a> .	<a href="#">Editing the content</a> .
		The <a href="#">user</a> does not have the needed <a href="#">role</a> .	<a href="#">Editing the user's profile</a> to have the missing <a href="#">role</a> .
			<a href="#">Editing the used workflow</a> to allow the <a href="#">transition</a> for one of the <a href="#">user's role</a> .
Cannot <a href="#">inactivate a parameter</a> .		The <a href="#">parameter</a> is used in a <a href="#">rule</a> or a <a href="#">placeholder</a> of the <a href="#">content</a> .	Checking all <a href="#">rules</a> or a <a href="#">placeholders</a> of the <a href="#">content</a> and, if possible, removing the <a href="#">parameter</a> .
Cannot set a <a href="#">reference</a> .		The desired reference is not yet available.	Contacting the administrator, providing the DOI of the desired reference.
Cannot save a form.		There are validation errors.	Editing the form values, so that the errors do not apply anymore and disappear.
Processing status of <a href="#">report order</a> is "the order could not be processed due to an error"	Order " <i>id</i> " in revision " <i>revision</i> ": No <a href="#">report mapping</a> found for the given <a href="#">report</a> " <i>report</i> " with language code " <i>language</i> ".	There exists no <a href="#">content</a> with the requested <a href="#">UUID</a> .	Checking the available <a href="#">UUIDs</a> on the <a href="#">overview of contents</a> , and reconfiguring the requesting system.
	Order <i>id</i> in revision <i>revision</i> : None <a href="#">published report</a> revision found for the given <a href="#">report</a> " <i>report</i> " in language " <i>language</i> ".	The <a href="#">content</a> is not ready to be delivered.	<a href="#">Editing and publishing</a> the content.
	Order <i>id</i> in revision <i>revision</i> : No suitable report revisions found for the given <a href="#">report</a> " <i>report</i> " in language " <i>language</i> ". Possible reason might be a change of the <a href="#">parameter tree</a> on <i>date</i> .		
	Order <i>id</i> in revision <i>revision</i> : A published <a href="#">report</a>	Depends on the given error	



	revision with errors found for the given <b>report</b> " <i>report</i> " in language " <i>language</i> " in its revision " <i>revision</i> ". Error messages: <i>messages</i>	messages. For example, not all <b>placeholders</b> could be replaced due to missing <b>metadata</b> .	
	<b>Order id</b> in revision <i>revision</i> . Incomplete or wrong <b>results</b> provided for the given <b>report</b> " <i>report</i> ".	Depends on the given error messages. For example, not all needed general information or measurements are provided.	Contacting the administrator responsible for linking the CMS and other systems.
	An exception has been thrown while saving a new revision with response of <b>report order</b> in revision <i>revision</i> at time <i>time</i> in <i>function</i> . Exception code: <i>code</i> . Exception message: <i>message</i>	An internal error.	Contacting the administrator.
Processing status of <b>report order</b> is "an error occurred during the response delivery"	An exception occurred while sending a response for an <b>report order</b> in <i>method</i> . Exception code: <i>code</i> . Exception message: <i>message</i> .	One of the above errors.	Seeing the other messages for more details.
	<b>Order id</b> during processing an exception has been thrown. Exception code: <i>code</i> . Exception message: <i>message</i> .		
	<b>Order id</b> in revision <i>revision</i> . errors during the <b>report</b> generation have been sent back for the <b>report</b> " <i>report</i> " in language " <i>language</i> ".		
Processing status of <b>report order</b> is "RLE error"		An internal error.	Contacting the administrator.
Processing status of <b>report order</b> is "the response is delivered"	<b>Order id</b> in revision <i>revision</i> . has been successfully processed for the given <b>report</b> " <i>report</i> " in language " <i>language</i> ".	The <b>published report</b> is delivered successfully.	-
	The newest version of the <b>report</b> was processed.	The latest <b>published report</b> is delivered, which is also the latest version of the <b>content</b> .	-
	An edited but <b>unpublished</b> version of the <b>report</b> exists.	The latest <b>published report</b> is delivered but a newer version exists.	Checking if the changes to the content are important for the report. If this is the case, publish the content and reorder the report.
Cannot see <b>tags</b>	Tags are not shown on the overview of <b>text</b> or <b>media elements</b> .	Filter setting include no content elements with tags.	Extend the filter selection to see the tag list for further specification by tag search.