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# **CIS2 Documentation**

**User manual**

**Mar 02, 2026**

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## INTRODUCTION

This User Guide proposes to describe the way the application should be used and all the functionalities that are available within the application.

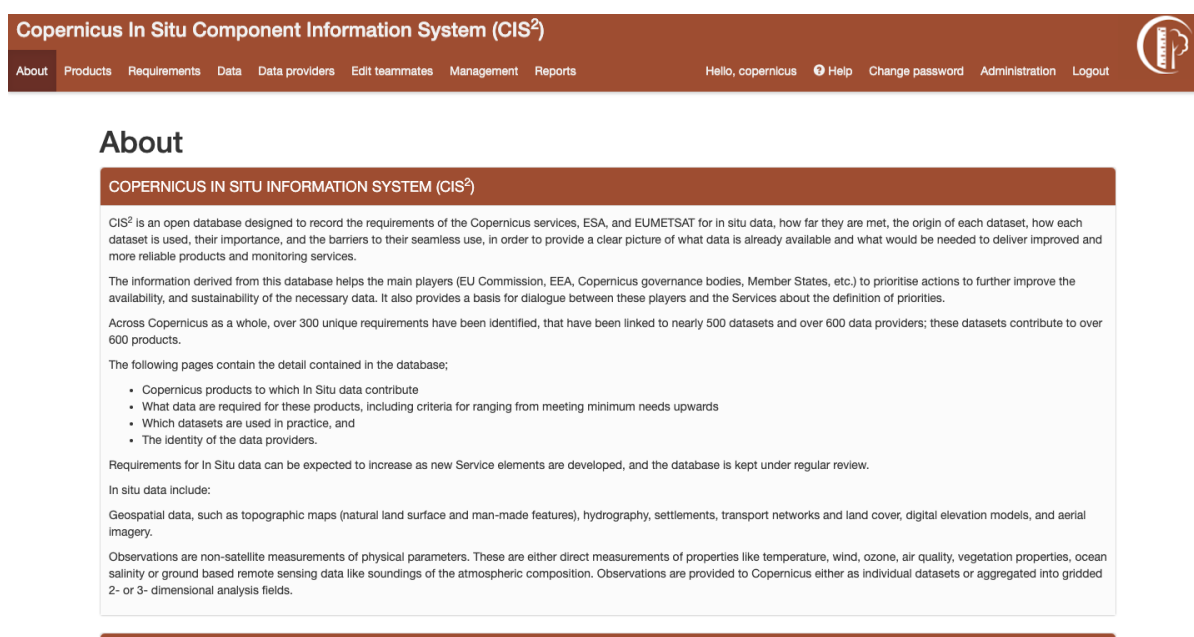


Figure 1: *Main application page*

The first page, available at <https://cis2.eea.europa.eu/>, is the HomePage presented in *Figure 1*. The navigation menu is available on the top of the page and it can be used to navigate to the listing pages of Products, Requirements, Data, Data Providers, to make changes to the user's account or to consult an online help page.

## DATABASE OBJECTS

The application holds the following main objects: Products, Requirements, Data, Data Provider. Those objects can have multiple relations between one another. Besides those objects, there are many picklists tables which hold various values to be used when defining an object.

### 2.1 Products

Copernicus In Situ Component Information System (CIS<sup>2</sup>)

About Products Requirements Data Data providers Edit teammates Management Reports Hello, admin Help Change password Administration Logout

### Products

New product

**FILTERS**

Service: All Entrusted Entity: All Component: All Group: All Status: All Area: All

Save as PDF Save as Excel

Search:

Show 10 rows entries

Name	Service	Entrusted entity	Component	Group	Status	Area
Product 1	Service 1	EE1	Component 1	Product group 1	Status 1	Area 1
Product 2	Service 2	EE2	Component 2	Product group 2	Status 2	Area 2
Product 3	Service 3	EE3	Component 3	Product group 3	Status 3	Area 3

Previous 1 Next

Figure 2: Products listing page

#### 2.1.1 Listing products

Products listing page can be accessed from the link in the navigation bar. The listing can be filtered using the dropdown options or by searching the products by their names. The filtered table can be exported then as a PDF or Excel document.

### 2.1.2 Creating new products

A new product can be created by clicking the button “New product” from the listing page. The form must be completed respecting the validation constraints. A product can be added only by an **user with administration rights**.

The screenshot shows a web interface for product details. At the top left is a "Back to product list" button. The main heading is "Product details" with "Edit product" and "Delete product" buttons on the right. Below this is a form with the following fields:

- Name: Product 1
- Acronym: PRD1
- Description: Product 1 description
- Note: Note 1
- Status: Status 1
- Group: Product group 1
- Area: Area 1
- Component: Component 1
- Service: Service 1
- Entrusted Entity: Entrusted entity 1

Below the form is a "Requirements" section with "Save as PDF" and "Save as Excel" buttons. A search bar is present with the text "Search:". Below the search bar is a "Show 10 rows entries" dropdown and "Previous 1 Next" navigation buttons. At the bottom is a table with the following data:

UID	Requirement	Level of definition	Relevant for	Criticality	Barriers	Note
1	Requirement 1	Definition level 2	Relevance 2	Criticality 1	Barrier 2	Note 1

At the bottom right of the table are "Previous 1 Next" navigation buttons.

Figure 3: A product’s detail page

### 2.1.3 Detail page of a product

A product’s detail page can be accessed by clicking on the product’s name in the listing table. All information concerning the product is displayed on this page. The table at the bottom of the page presents the requirements that product has a relation with. By clicking on the requirement name, the requirement detail page can be seen. This table can be filtered by searching the requirement’s name. It can also be exported as either PDF or Excel document.

### 2.1.4 Updating an existing product

A product can be edited by clicking on the “Edit Product” button from a product’s detail page. The form must again respect all validation constraints. A product can be updated only by an **user with administration rights**.

### 2.1.5 Deleting a product

A product can be deleted by clicking on the “Delete Product” button from a product’s detail page. Another button must be clicked then to accept this change. A product can be deleted only by an user with administration rights.

## 2.2 Requirement

The screenshot shows the 'Requirements' page in the Copernicus In Situ Component Information System (CIS2). The page includes a navigation bar with links for About, Products, Requirements, Data, Data providers, Edit teammates, Management, and Reports. A user is logged in as 'admin'. The main content area features a 'Requirements' title and a 'New requirement' button. Below this is a 'FILTERS' section with dropdown menus for Dissemination, Quality Control Procedure, Group, Product, State, and Component. There are also buttons for 'Save as PDF' and 'Save as Excel', and a search bar. The table below shows a list of requirements with columns for ID, Name, Dissemination, Quality Control Procedure, Group, Uncertainty, Update Frequency, Timeliness, Scale, Horizontal resolution, Vertical resolution, and State. The table is paginated, showing 10 rows and 1 page.

ID	Name	Dissemination	Quality Control Procedure	Group	Uncertainty	Update Frequency	Timeliness	Scale	Horizontal resolution	Vertical resolution	State
1	Requirement 1	Dissemination 1	Quality control procedure 1	Requirement group 1	1	1	1	1	1	T: 1 - B: 1 - G: 1	draft
				Requirement group 1	1	1	1	1	1		
				Requirement group 1	1	1	1	1	1		
2	Requirement 2	Dissemination 2	Quality control procedure 2	Requirement group 2	2	2	2	2	2	T: 2 - B: 2 - G: 2	draft
				Requirement group 2	2	2	2	2	2		
				Requirement group 2	2	2	2	2	2		
3	Requirement 3	Dissemination 3	Quality control procedure 3	Requirement group 3	3	3	3	3	3	T: 3 - B: 3 - G: 3	draft
				Requirement group 3	3	3	3	3	3		
				Requirement group 3	3	3	3	3	3		

Figure 4: Requirements listing page

### 2.2.1 Listing requirements

Requirements listing page can be accessed from the link in the navigation bar. The listing can be filtered using the dropdown options or by searching the requirements by their names. The filtered table can be exported then as a PDF or Excel document. For metrics columns a legend explaining the values meaning can be accessed by hovering over the information button.

### 2.2.2 Creating new requirements

A new requirement can be created by clicking the button “New requirement” from the listing page. The form must be completed respecting the validation constraints. For requirement, a special validation is implemented. There must be no duplicated requirement. This means that in order to create a new requirement, it must have at least one field(except for its name) which is different from another requirement already in the database.

### 2.2.3 Cloning a requirement

The clone option can be used if a new requirement to be created is very similar to one existing already in the application. The cloning form can be accessed by going to the detail page of the similar requirement and clicking on the Clone button. The form will be completed with data from the similar requirement. However, in order to save the new requirement, at least one field must be changed (except the name field).

### 2.2.4 Detail page of a requirement

A requirement’s detail page can be accessed by clicking on the requirement’s name in the listing table. All information concerning the requirement is displayed on this page. The metrics information is explained when hovering over the values. There are two tables at the bottom of the page. Both tables can be filtered by name and then exported as PDF or as Excel.

**The first table concerns the relation with products.** All products with which the requirement has a relation with are listed in this table.

The screenshot shows a web interface for managing requirement products. At the top, there are two buttons: "Add requirement to product group" and "Add requirement to product". Below these are "Save as PDF" and "Save as Excel" buttons. A search bar is present with the label "Search:". Below the search bar, there is a "Show 10 rows entries" dropdown and pagination controls with "Previous", "1", and "Next" buttons. The main table has the following data:

Product	Level of definition	Relevant for	Criticality	Barriers	Note	
Product 1	Definition level 2	Relevance 2	Criticality 1	Barrier 2	Note 1	
Product 2	Definition level 2	Relevance 2	Criticality 2	Barrier 2	Note 2	

At the bottom of the table, there are "Previous", "1", and "Next" pagination buttons.

Figure 5: Requirement Products relation table

Those relations must be unique, so between Product A and Requirement B there can be only a relation. There is an exception to this rule in case the Relevance parameter is different. There are two ways to add a new relation to products. First method is to click on the “Add requirement to product” button and then complete a form in which you select the product you want to use in that relation. The second method is to click on the “Add requirement to product group” button. In the form a product group can be selected. After form submission, relations will be created between the requirement and all the products that are in that product group. A relation will be created only if a relation does not exist between that product and that requirement, following the Relevance rule presented above. The relations can also be edited or deleted using the buttons attached to each row in the table.

**The second table concerns the relation with data.** All data with which the requirement has a relation with is listed in this table.

Similar to the products, new relations between the requirement and data can be created. There must be a unique relation between a requirement and a data. The relation can be edited or deleted using the buttons from the table.

Previous 1 Next

**Data**

Save as PDF
Save as Excel

Show 10 entries


Data	Level of compliance	Note	Information costs	Handling costs	
Data 1	Compliance level 1	Note 1	✔	⊘	<span style="font-size: 1.2em;">↗</span> <span style="font-size: 1.2em;">🗑</span>

Add requirement to data


Search:

Previous 1 Next

Previous 1 Next



PROGRAMME OF THE  
EUROPEAN UNION



Europe's eyes on Earth

Implemented by




Figure 6: Requirement Data relation table

## 2.2.5 Updating an existing requirement

A requirement can be edited by clicking on the “Edit Requirement” button from a requirement’s detail page. The form must again respect all validation constraints, including the uniqueness of the requirements discussed in the Creating new requirements section.

## 2.2.6 Deleting a requirement

A requirement can be deleted by clicking on the “Delete Requirement” button from a requirement’s detail page. Another button must be clicked then to accept this change.

## 2.3 Data

### 2.3.1 Listing data

Data listing page can be accessed from the link in the navigation bar. The listing can be filtered using the dropdown options or by searching data by its name. The filtered table can be exported then as a PDF or Excel document.

### 2.3.2 Creating new data

A new data can be created by clicking the button “New data” from the listing page. The form which is initially accessed has no validation. This was decided in order to allow partial data to be created in the application. However, if the user is sure about the data that he wants to introduce, he should use the form provided in *Figure 8*. There is a special validation rule for this form: at least an inspire theme or an essential variable.

Copernicus In Situ Component Information System (CIS<sup>2</sup>)

About Products Requirements **Data** Data providers Edit teammates Management Reports Hello, admin Help Change password Administration Logout

## Data New data

**FILTERS**

Update Frequency: All Area: All Timeliness: All Data Policy: All Data type: All Data format: All

Quality Control Procedure: All Dissemination: All Requirement: All State: All Component: All

Save as PDF Save as Excel

Search:

Show 10 rows entries

Name	Update Frequency	Area	Timeliness	Data Policy	Data type	Data format	Quality Control Procedure	Dissemination	State
Data 1	Update frequency 1	Area 1	Timeliness 1	Data policy 1	Data type 1	Data format 1	Quality control procedure 1	Dissemination 1	draft
Data 2	Update frequency 2	Area 2	Timeliness 2	Data policy 2	Data type 2	Data format 2	Quality control procedure 2	Dissemination 2	draft
Data 3	Update frequency 3	Area 3	Timeliness 3	Data policy 3	Data type 3	Data format 3	Quality control procedure 3	Dissemination 3	draft

Previous 1 Next

Figure 7: Data Provider listing page

## Add a new data

All fields marked with \* are required.

This form has no mandatory fields! You can access the form with required validation [here](#).

**Name\***

**Note**

Figure 8: Datalisting page

### 2.3.3 Cloning a data

The clone option can be used if the new data is very similar to one existing already in the application. The cloning form can be accessed by going to the detail page of the similar data and clicking on the Clone button. The form will be completed with data from the similar data.

## Data details

Name	Data 1
Note	Note 1
Update Frequency <span style="font-size: 0.8em;">?</span>	Update frequency 1
Area <span style="font-size: 0.8em;">?</span>	Area 1
Temporal	09 Aug. 2023 - 20 Aug. 2023
Timeliness <span style="font-size: 0.8em;">?</span>	Timeliness 1
Data Policy <span style="font-size: 0.8em;">?</span>	Data policy 1
Data type <span style="font-size: 0.8em;">?</span>	Data type 1
Data format <span style="font-size: 0.8em;">?</span>	Data format 1
Quality Control Procedure <span style="font-size: 0.8em;">?</span>	Quality control procedure 1
Dissemination <span style="font-size: 0.8em;">?</span>	Dissemination 1
Inspire themes <span style="font-size: 0.8em;">?</span>	1: Inspire theme 1
Essential variables <span style="font-size: 0.8em;">?</span>	Essential variables 1 - Component 1 - wefs
Geographical Coverage <span style="font-size: 0.8em;">?</span>	Country 1
Status <span style="font-size: 0.8em;">?</span>	Status 1
State <span style="font-size: 0.8em;">?</span>	Draft
Created by	,

Edit data
Delete data

Clone data

Mark as ready

Figure 9: Data detail page

### 2.3.4 Detail page of data

A data's detail page can be accessed by clicking on the data's name in the listing table. All information concerning the data is displayed on this page. If that data is just partially completed, a warning message will be displayed on the top of the page with a link to the editing page with full validation(*Figure 9*).

There are two tables at the bottom of the page. Both tables can be filtered by name and then exported as PDF or as Excel.

**The first table concerns the relation with data provider.** All data providers with which the data has a relation with are listed in this table. Those relations must be unique, so between Data A and DataProvider B there can be only one relation. By clicking on the button “Add data to data provider” and completing the form a new relation is added. The relation can be edited or deleted using the buttons from the table.

**The second table concerns the relation with requirement.** All requirements with which the data has a relation with is listed in this table. New relations can be created from requirement's page.

### Data Providers

Add data to data provider

Save as PDF
Save as Excel

Search:

Show 10 entries

Previous
1
Next

Data provider	Role	Is network	
Data provider 1	Originator	⊖	<span style="font-size: 1.2em;">✎</span> <span style="font-size: 1.2em; margin-left: 10px;">🗑</span>

Previous
1
Next

### Requirements

Save as PDF
Save as Excel

Search:

Show 10 entries

Previous
1
Next

Requirement	Level of compliance	Note	Information costs	Handling costs
Requirement 1	Compliance level 1	Note 1	⊕	⊖

Previous
1
Next

Figure 10: Data detail page relations

### 2.3.5 Updating an existing data

A data can be edited by clicking on the “Edit Data” button from a data’s detail page. Similar to the creation of new data, there are two forms: one with validation and one without.

### 2.3.6 Deleting data

Data can be deleted by clicking on the “Delete Requirement” button from a requirement’s detail page. Another button must be clicked then to accept this change.

## 2.4 Data provider

There are two types of data providers: data provider network and data provider. The data provider network can have other data providers or data provider networks as its members. This structure is defined as so to maintain a hierarchy between data providers.

The screenshot shows the 'Data providers' page in the Copernicus In Situ Component Information System (CIS2). The page has a dark blue header with the system name and navigation links. Below the header, there are two buttons: 'New data provider' and 'New data provider network'. A 'FILTERS' section contains dropdown menus for 'Provider type', 'Is network', 'State', and 'Component', along with a trash icon. Below the filters are 'Save as PDF' and 'Save as Excel' buttons. A search bar is located on the right. The main content is a table with 11 columns: Name, Acronym, Edmo, Address, Phone, Email, Contact person, Provider type, Is network?, and State. The table contains three rows of data providers. At the bottom right, there are 'Previous', '1', and 'Next' navigation buttons.

Name	Acronym	Edmo	Address	Phone	Email	Contact person	Provider type	Is network?	State
Data provider 1	DP1	2342					Provider type 1	⊘	draft
Data provider 2		2324					Provider type 2	⊘	draft
Data provider network 1		342					Provider type 3	⊙	draft

Figure 11: Data provider listing

### 2.4.1 Listing data provider

Data provider listing page can be accessed from the link in the navigation bar. The listing can be filtered using the dropdown options or by searching data by its name. The filtered table can be exported then as a PDF or Excel document.

### 2.4.2 Creating a new data provider

A new data provider can be created by clicking the button “New data provider” from the listing page. A new data provider network can be created by clicking the button “New data provider network” from the listing page.

### 2.4.3 Detail page of data provider

A data provider’s detail page can be accessed by clicking on the data provider’s name in the listing table.

All information concerning the data provider is displayed on this page. There is a tables at the bottom of the page. It can be filtered by name and then exported as PDF or as Excel. **The table concerns the relation with data.** All data with which the data provider has a relation with is listed in this table.

### 2.4.4 Updating an existing data provider

A data provider can be edited by clicking on the “Edit Data Provider” button from a data provider’s detail page. Different forms are used for data provider/data provider network.

### **2.4.5 Edit network members**

A data provider network can have members. Its members can be edited by clicking on the “Edit network members”. A network can't be its own member.

### **2.4.6 Deleting data provider**

A data provider can be deleted by clicking on the “Delete Data provider” button from a data provider's detail page. Another button must be clicked then to accept this change.

### 3.1 User Registration

A new user can be added to the application only by an administrator. The administrator uses the form in *Figure 12* to create a new user with the chosen username and email. After creation, the person receives on the given email their login information, including a password set URL.

Home › Authentication and Authorization › Users › Add user

#### Add user

First, enter a username and password. Then, you'll be able to edit more user options.

Email address:

Username:

Required. 150 characters or fewer. Letters, digits and @/./+/-/\_ only.

#### Personal info

First name:

Last name:

Save and add another

Save and continue editing

SAVE

Figure 12: *User Registration Form*

## 3.2 User Roles

There are multiple types of users in the application:

### Administrator

The administrator can modify everything in the application, without restriction. This type of user also has access to an administrative pannel.

### Picklists Editor

This user role allows a user to access a filtered version of the administrative pannel, for modifying the picklists. This user is only allowed to add/edit the picklists.

### Product Editor

This user role allows a user to add or edit the products, similar to the way requirements, data and data providers are edited.

### Regular Users

The user is restricted from accessing the administration section, the management section and create, update or delete any products.

The users have permission to edit or delete an object if they are the owner of it. Being the owner of an object means that the object was created by that specific user.

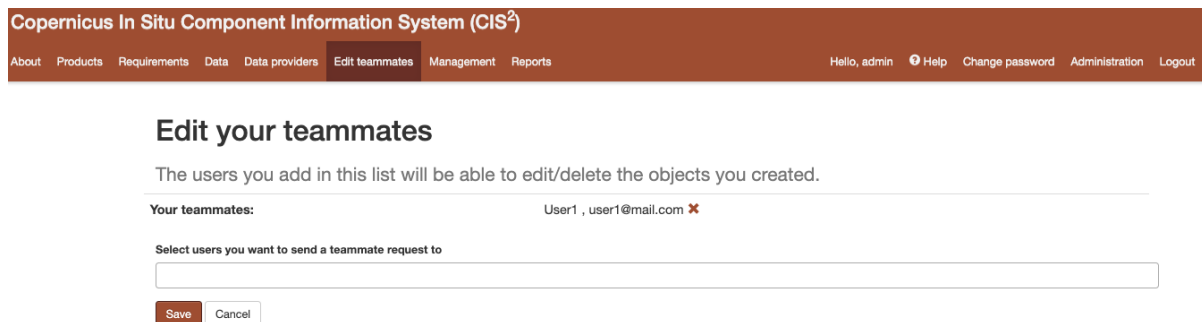
### Read-Only User

The read-only user is a user that is included in the Read-only Group. This type of user can only view the objects and create and download reports, but they cannot add, edit or delete any information in the application.

### Unauthenticated User

A guest to the application can view the objects and download the reports, but they cannot add/edit/delete any information from the application.

## 3.3 User Teams



The screenshot shows the 'Edit your teammates' form in the Copernicus In Situ Component Information System (CIS²). The page has a dark red header with the system name and navigation links: About, Products, Requirements, Data, Data providers, Edit teammates (active), Management, Reports, Hello, admin, Help, Change password, Administration, Logout. The main content area has a title 'Edit your teammates' and a subtitle 'The users you add in this list will be able to edit/delete the objects you created.' Below this, there is a section 'Your teammates:' with a list containing 'User1 , user1@mail.com' and a red 'x' icon. A text input field is labeled 'Select users you want to send a teammate request to'. At the bottom, there are 'Save' and 'Cancel' buttons.

Figure 13: *Teammates editing form*

A user can add other users to his team. Adding a user to one's team gives that user permission to edit or delete all objects created by that user. Once a user A adds another user B to his team, the user B will also have user A in their team. A user can edit their teammates by accessing the edit teammates form from the navigation menu. Once a user sends a teammate request, the other user will receive an email containing a link. Only after the link is clicked, the two users will become teammates. (*Figure 13*)

### **3.4 Change Password Option**

In case the account password was forgotten, the user can reset their password. An e-mail will be sent to the user's email account with a reset password link. The user will then be able to set their new password.

## VALIDATION WORKFLOW

Requirement, Data and Data Provider are all passing through a validation workflow.

### 4.1 States

#### **Draft**

This is the state that the object has on its creation. In this state the object is editable. The owner or one of their teammates can mark as ready the object.

#### **Ready for validation**

In this state the object cannot be edited. A user different from the owner or their teammates can mark as valid the object and end the workflow. All users can request changes if that user considers that there is missing information (including the owner).

#### **Changes requested**

In this state the object cannot be edited. The owner or one of their teammates can get the object back to the draft state.

When an object's state is changed into "changes requested", the user requesting the changes has to complete a feedback field in which they inform the owner of the object about the changes that should be made (*Figure 15*). The owner and their teammates receive an e-mail informing them that the object has requests for changes, the user that made those requests and what changes the user requested (from the feedback field). The users in the application can see this feedback when the object is in state "Changes requested" or "Draft" on the detail page of the object (*Figure 16*). This feedback can be cleared by the owner or their teammates if the object is an editable state.

#### **Valid**

In this state, the workflow has ended and the object cannot be modified anymore. The object can be sent back to "Draft" state if the users agree that more changes should be made to it.

### 4.2 State of the relation objects during validation

The relations between the objects do not go through the validation workflow. As such, relations between entries can be created, edited or deleted no matter the state of the objects they are linking.

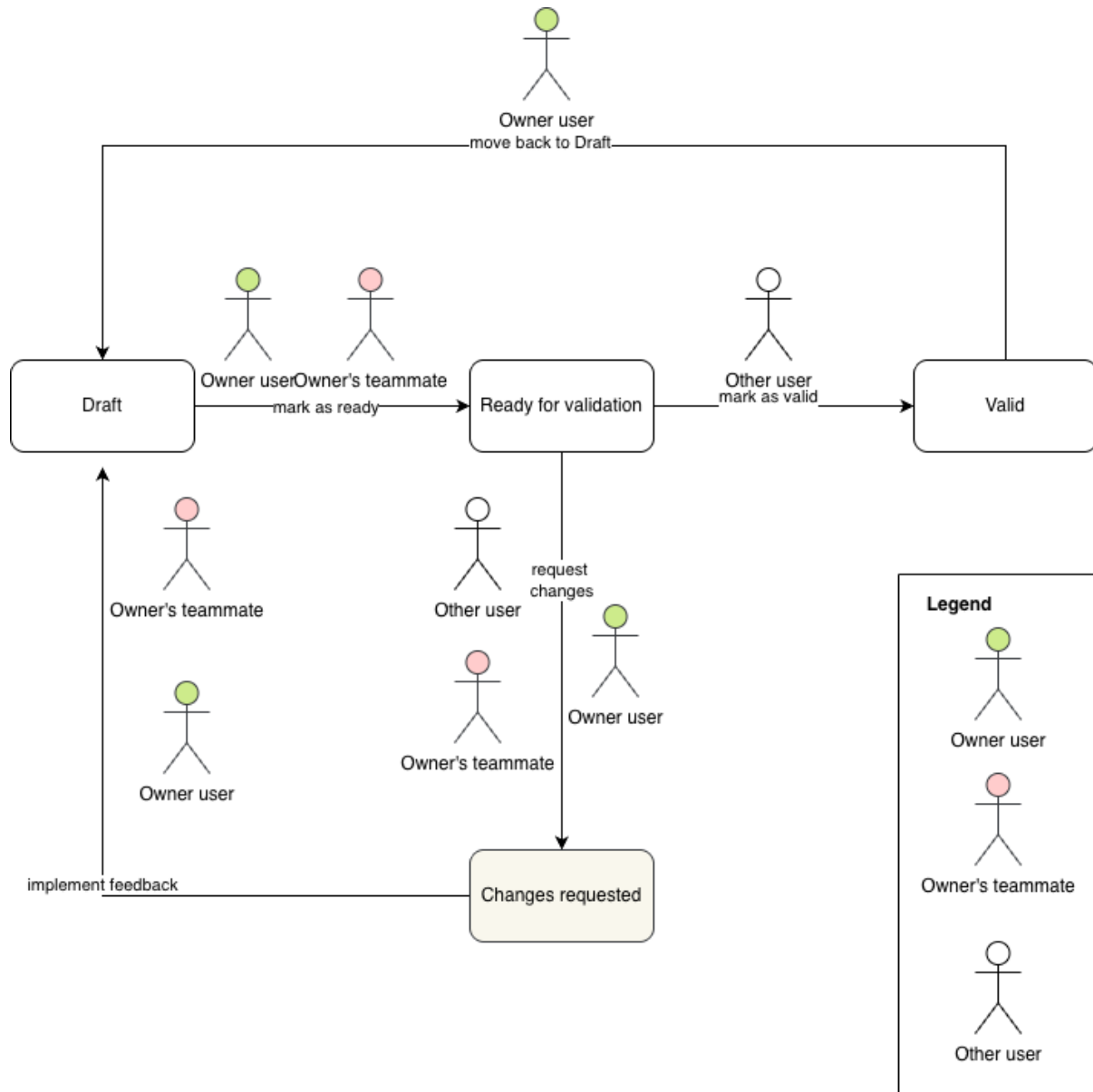


Figure 14: Workflow for Requirement, Data, Data Provider

Copernicus In Situ Component Information System (CIS<sup>2</sup>)

About Products Requirements Data Data providers Edit teammates Reports Hello, user1 Help Change password Logout

## Data 1

Mark data as changes

**⚠** If you change this data, the following objects will also be marked as changes.

DataProviderRelation  
Data 1 - Data provider 1

Feedback \*(use this field to inform the owner of the changes that should be made)

Please make the following changes:  
1. Change 1  
2. Change 2

Accept Cancel

Figure 15: Request changes feedback field example

Data format ?	Data format 1
Quality Control Procedure ?	Quality control procedure 1
Dissemination ?	Dissemination 1
Inspire themes ?	1: Inspire theme 1
Essential variables ?	Essential variables 1 - Component 1 - wefs
Geographical Coverage ?	Country 1
Status ?	Status 1
State ?	Changes requested

**Feedback:**  
Please make the following changes:  
1. Change 1  
2. Change 2

Created by Admin,

### Data Providers

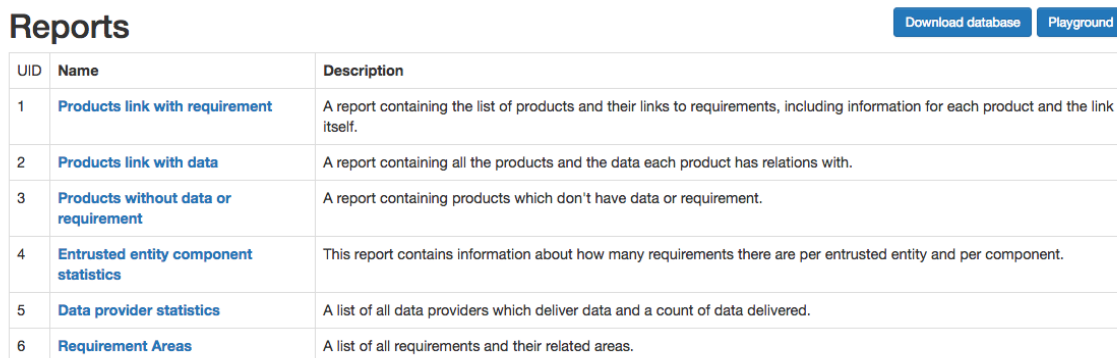
Figure 16: Example of display of a feedback left by a user

## REPORTS

For exporting data in various formats, reports have been added to the application. The reports are generated by database queries. Those queries are established and implemented, so for any new report a request to the developing team must be made. The reports can be accessed by clicking on the “Reports” tab from the navigation menu.

### 5.1 Reports list

The reports’ list can be accessed by clicking on the “Reports” tab from the navigation menu. This page consists from a list with all the reports defined in the application. Each report is defined by a name and contains a short description which describes what the report contains. An example of this page is available in *Figure 17* .



UID	Name	Description
1	<a href="#">Products link with requirement</a>	A report containing the list of products and their links to requirements, including information for each product and the link itself.
2	<a href="#">Products link with data</a>	A report containing all the products and the data each product has relations with.
3	<a href="#">Products without data or requirement</a>	A report containing products which don't have data or requirement.
4	<a href="#">Entrusted entity component statistics</a>	This report contains information about how many requirements there are per entrusted entity and per component.
5	<a href="#">Data provider statistics</a>	A list of all data providers which deliver data and a count of data delivered.
6	<a href="#">Requirement Areas</a>	A list of all requirements and their related areas.

Figure 17: Reports list page

### 5.2 Report detail page

On the report detail page has the name and description on the top part. After those there is a single tab, named “Pivot”.

### 5.3 Pivot

A loading animation will be displayed until the pivot table loads. The available columns are displayed on the top of this table or on the left side, depending on the report.

Those columns can then be dragged under the area surrounded by a blue border in the Figure below. The columns will appear in the preview section in the order they were introduced. They can be rearranged to fit the user’s need. The data displayed in each column is arranged in alphabetical order. The preview shows the user how the exported PDF/Excel file will look like. The pivot table can be exported in HTML, PDF or Excel format. (Figure 18 and Figure 19) .

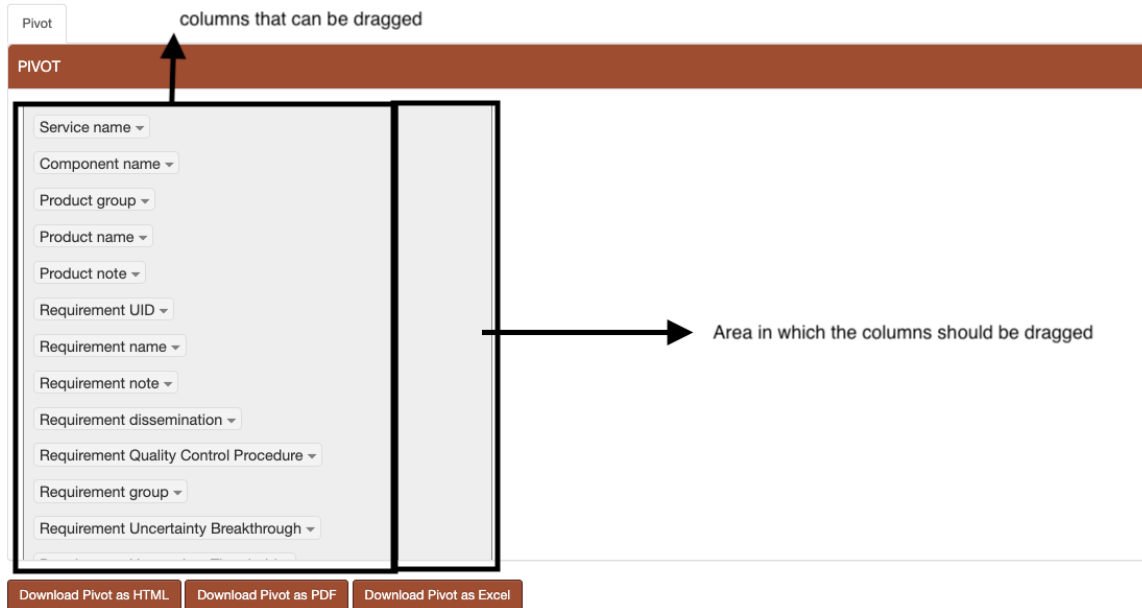


Figure 18: Report pivot - before dragging columns

### 5.4 Filtering data in Pivot

The data in the table can also filtered by clicking on the arrow next to the column name (Figure 20).

### 5.5 Special reports

The special reports are spreadsheet files that have unmerged cells and can be filtered afterwards with specialized tools. Those reports can be found on the Report’s list page, on the top of the page. For each report there is a description explaining what type of data each report contains.

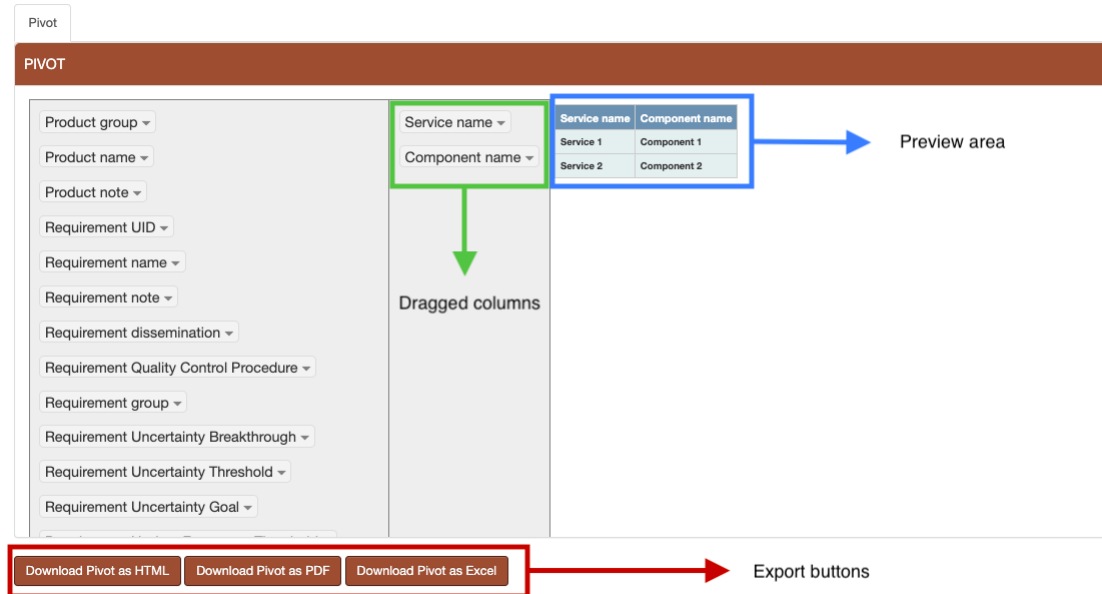


Figure 19: Report pivot - after dragging columns

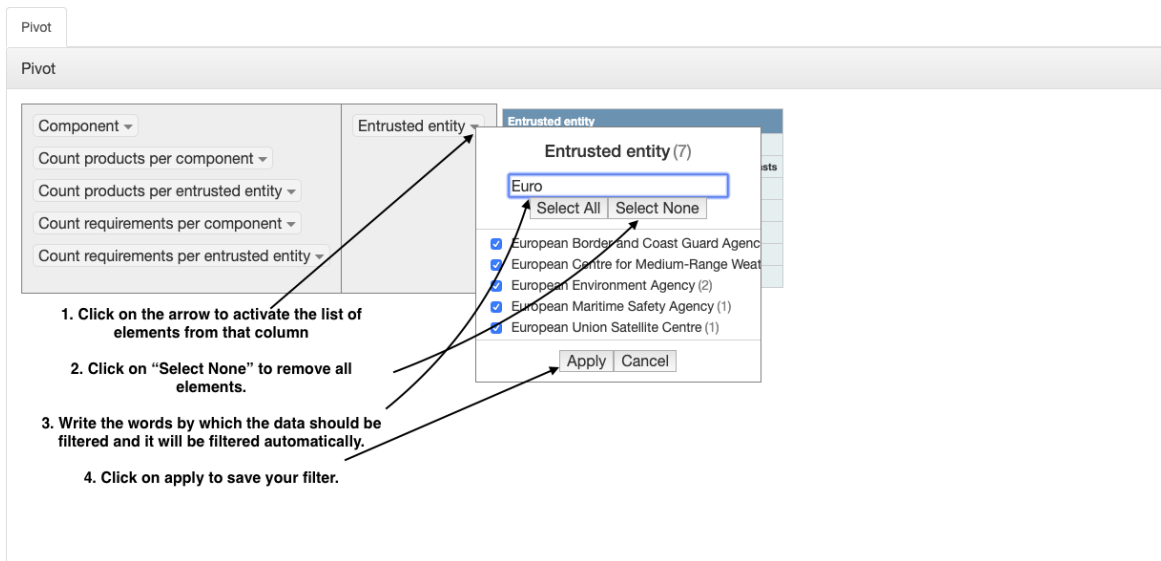


Figure 20: Report pivot - filter the data in the table

Copernicus In Situ Component Information System (CIS<sup>2</sup>)

Products Requirements Data Data providers Edit teammates Reports

Hello, user1 Help Change password Logout

## Reports

Playground Download database

### Special reports:

Those reports are exported as spreadsheet files with unmerged cells that can be filtered afterwards with specialized tools.

1. This report contains all relevant columns from products, requirements, data and data requirements for the following services:

- a) Copernicus Emergency Management Service
- b) Copernicus Land Monitoring Service
- c) Copernicus Security Service

Download Excel

2. This report contains all relevant columns from products, requirements, data and data requirements for the following services:

- a) Copernicus Atmosphere Monitoring Service
- b) Copernicus Marine Environment Monitoring Service
- c) Copernicus Climate Change Service

Download Excel

[Standard Report](#)

[Country Report](#)

Figure 21: *Special reports*

## 5.6 Standard Report

The application also generates Standard Reports. Those reports present data that is filtered against the components of the 3 following services: Copernicus Emergency Management Service, Copernicus Land Monitoring Service and Copernicus Security Service. One exception is available for the For the Global Land Component as only 2 products are filtered for it ( the Hot Spot Monitoring - Land Cover and Hot Spot Monitoring - Land Cover Change products) .

The Standard Report is available under the Reports tab from the navigation menu followed by clicking on the link “Standard Report”.

The user can then select one or more Components from the second dropdown to filter the data against. The first dropdown, Service, is used to filter the Components in the second dropdown in order to better identify which component is part of which service. (*Figure 22*) After setting the filters, the user has the option to either generate the Standard Report as a PDF or as an Excel file. The file will contain details regarding the component(s) that the data was filtered against and the date and time at which the report was generated.

## 5.7 Country Report

The application also generates Country Reports. Those reports present data that is filtered against the data providers that are part of the selected country.

The Country Report is available under the Reports tab from the navigation menu followed by clicking on the link “Country Report”.

The user can then select one Country from the dropdown to filter the data against. (*Figure 23*)

After selecting the country, the user has the option to either generate the Country Report as a PDF or as an Excel file.

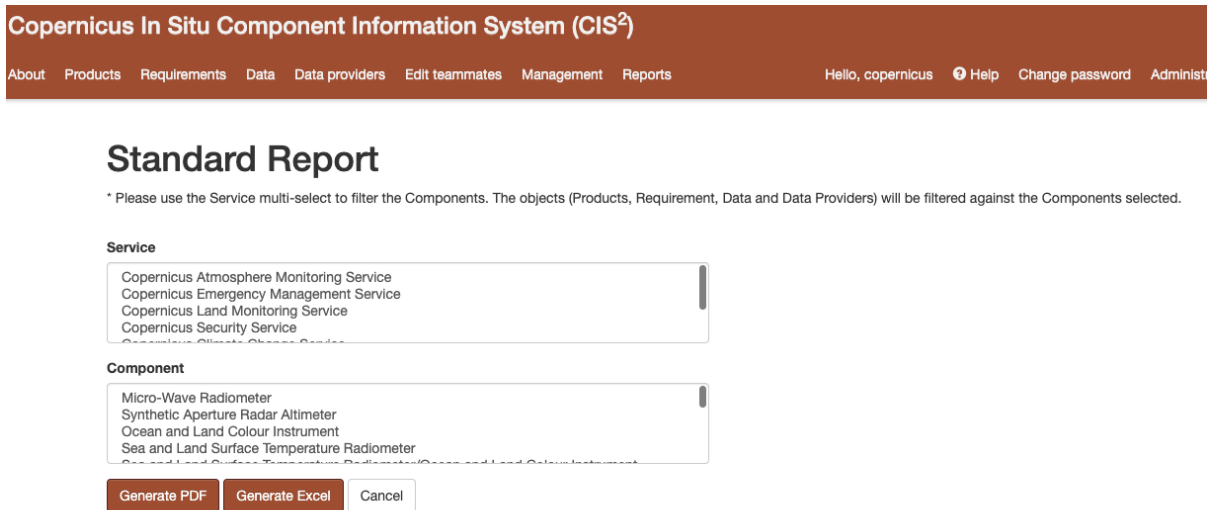


Figure 22: Standard report

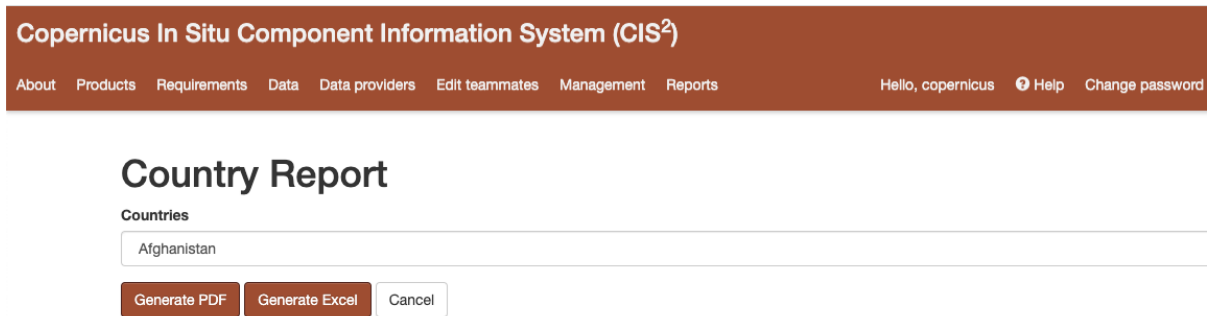


Figure 23: Country report

## **ADMINISTRATION**

The administration panel can be accessed only by a user who has administration rights. Here, all objects, relations and picklists values can be modified without constraints.

## Django administration

### Site administration

AUTHENTICATION AND AUTHORIZATION		
<b>Groups</b>	<a href="#">+ Add</a>	<a href="#">✎ Change</a>
<b>Users</b>	<a href="#">+ Add</a>	<a href="#">✎ Change</a>
EXPLORER		
<b>Queries</b>	<a href="#">+ Add</a>	<a href="#">✎ Change</a>
INSITU		
<b>Components</b>	<a href="#">+ Add</a>	<a href="#">✎ Change</a>
<b>Copernicus services</b>	<a href="#">+ Add</a>	<a href="#">✎ Change</a>
<b>Data provider details</b>	<a href="#">+ Add</a>	<a href="#">✎ Change</a>
<b>Data provider relations</b>	<a href="#">+ Add</a>	<a href="#">✎ Change</a>
<b>Data providers</b>	<a href="#">+ Add</a>	<a href="#">✎ Change</a>
<b>Data requirements</b>	<a href="#">+ Add</a>	<a href="#">✎ Change</a>
<b>Datas</b>	<a href="#">+ Add</a>	<a href="#">✎ Change</a>
<b>Entrusted entities</b>	<a href="#">+ Add</a>	<a href="#">✎ Change</a>
<b>Metrics</b>	<a href="#">+ Add</a>	<a href="#">✎ Change</a>
<b>Product requirements</b>	<a href="#">+ Add</a>	<a href="#">✎ Change</a>
<b>Products</b>	<a href="#">+ Add</a>	<a href="#">✎ Change</a>

Figure 24: Administrator panel

## HELP PAGE

The help page describes each value in the dropdowns used to fill the objects. The help page can be accessed from the navigation menu by clicking “Help”. In the forms, the dropdown fields have attached a question mark. By clicking on that question mark you will access the help page.

### Barrier

High level barriers used to illustrate the main reasons why a given in situ data requirement cannot be meet for the product in question.

name	description
Barrier 1	Description.
Barrier 2	Description.
Barrier 3	Description.
Barrier 4	Description.
Barrier 5	Description.

Figure 25: *An example table from help page*

For Example, in *Figure 25* is one of the tables available on the Help page. Under the table title there is a small description of that field’ s purpose. In the table there is the name of each value and the description of what that value represents.

## MANAGEMENT

### Manage picklists and products

**TRANSFER OWNERSHIP**

Previous owner:  
User1

New owner:  
Admin

Disable previous owner?  
 Yes  
 No

Transfer ownership

**EXPORT PICKLISTS**

Download all picklists

**IMPORT PICKLISTS**

Workbook  
Choose File No file chosen  
Import data

**EXPORT PRODUCTS**

Download all products

**IMPORT PRODUCTS**

Workbook

Figure 26: *Management section*

The management section is accessible only to an user with administration rights. This section can be used to export all picklists or all products as an excel document. In order to import picklists or products, the user must first export them, edit the exported spreadsheet and then import it.

Statistics about the data can also be extracted on this page. The user can check, for a selectable period of time, how many objects were active, how many objects were created and how many objects were updated. The user has to select a start date for the period, an end date and the objects type they want the data to be shown for.

## 8.1 Ownership Transfer

When people are no longer working on the application data, their objects ownership needs to be transferred to a new active user. This can be easily done using a management feature. Using the form in *Figure 27*, an administrator should choose the previous user and the new user. All the objects, including the links between objects will be transferred to the new user. There is also an option to disable the previous user's account.

### Manage picklists and products

**TRANSFER OWNERSHIP**

Previous owner:  
User1

New owner:  
Admin

Disable previous owner?  
 Yes  
 No

Transfer ownership

Figure 27: Transfer ownership

## LOGGING ACTIONS

All editing actions done by users are logged in Admin. That includes: editing, adding or deleting any object from the application will be stored. The log gives informations about the user, the action the user made and the object that was accessed. *Figure 28*

Home > Insitu > Logged actions

Select logged action to change ADD LOGGED ACTION +

Q  Search

Action:  Go 0 of 100 selected

<input type="checkbox"/>	LOGGED DATE	USER	ACTION	TARGET TYPE	ID TARGET	EXTRA
<input type="checkbox"/>	Dec. 12, 2022, 8:27 p.m.	user1	created	relation between data and data provider	3000	
<input type="checkbox"/>	Dec. 12, 2022, 8:27 p.m.	user1	deleted	data	417	
<input type="checkbox"/>	Dec. 12, 2022, 8:26 p.m.	user1	created	relation between data and data provider	2999	
<input type="checkbox"/>	Dec. 12, 2022, 8:25 p.m.	user1	created	relation between data and data provider	2998	
<input type="checkbox"/>	Dec. 12, 2022, 8:25 p.m.	user1	deleted	data	420	
<input type="checkbox"/>	Dec. 12, 2022, 8:25 p.m.	user1	deleted	data	419	
<input type="checkbox"/>	Dec. 6, 2022, 10:46 a.m.	user2	changed state from draft to ready for	data provider	304	
<input type="checkbox"/>	Dec. 6, 2022, 10:46 a.m.	user2	updated	data provider network	304	
<input type="checkbox"/>	Dec. 6, 2022, 10:46 a.m.	user2	changed state from ready to draft for	data provider	304	

Figure 28: *Logging management*

## RELEASES

The application is released in versions. Each version has a month and year combination and a short description of the changes made during the last version. The releases can be visualised under the “Releases” tab from the About page.

The information derived from this database helps the main players (EU Commission, EEA, Copernicus governance bodies, Member States, etc.) to prioritise actions to further improve the availability, and sustainability of the necessary data. It also provides a basis for dialogue between these players and the Services about the definition of priorities.

Across Copernicus as a whole, over 300 unique requirements have been identified, that have been linked to nearly 500 datasets and over 600 data providers; these datasets contribute to over 600 products.

The following pages contain the detail contained in the database;

- Copernicus products to which In Situ data contribute
- What data are required for these products, including criteria for ranging from meeting minimum needs upwards
- Which datasets are used in practice, and
- The identity of the data providers.

Requirements for In Situ data can be expected to increase as new Service elements are developed, and the database is kept under regular review.

In situ data include:

Geospatial data, such as topographic maps (natural land surface and man-made features), hydrography, settlements, transport networks and land cover, digital elevation models, and aerial imagery.

Observations are non-satellite measurements of physical parameters. These are either direct measurements of properties like temperature, wind, ozone, air quality, vegetation properties, ocean salinity or ground based remote sensing data like soundings of the atmospheric composition. Observations are provided to Copernicus either as individual datasets or aggregated into gridded 2- or 3- dimensional analysis fields.

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### RELEASES

**November 2023**

**The CIS2 November 2023 release includes, in particular, the following updates:**

- Revision of information for Data providers providing data to Copernicus Atmospheric Monitoring Service (CAMS)
- Revision of Sentinel-3 information (Land and Ocean) based on recent information from ESA and EUMETSAT
- Revision of datasets and products associated to Copernicus Emergency Management Service – Risk and Recovery Mapping (CEMS-RRM)

Figure 29: *Releases*

## **SOFT DELETION**

The objects and relations are never deleted. They are instead marked as “deleted”. The objects can be permanently deleted only by accessing the database directly.