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Nutzungsdokument: ICDD Platform

Zugangsadresse: https://icdd.vm.rub.de/ui/

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Dokumentinformation

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Verantwortllicher Autor	Lehrstuhl Informatik im Bauwesen, RUB
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Änderungsverzeichnis

Nr.	Datum	Version	Änderungen	Autor
1	15.09.2021	0.1	Erstellung des Dokuments	M. Kirschstein, L. Liu

TABLE OF CONTEXT

1. INFORMATION ABOUT THE WEB APPLICATION

The ICDD PLATFORM is a web-based application. The Platform is for managing Project- and Assetinformation in the form of Information Container for linked Document Delivery (ICDD) according to ISO21597. The URI is https://icdd.vm.rub.de/ui/.

The Platform is generally divided into 3 steps:

1. Register/ Log in
2. Projectmanagement
3. Containermanagement

Each of these steps are described in the following sections

2. REGISTER AND LOG IN

The buttons to register and log in are in the far right corner of the homepage
(see figure. 1 „➡“).
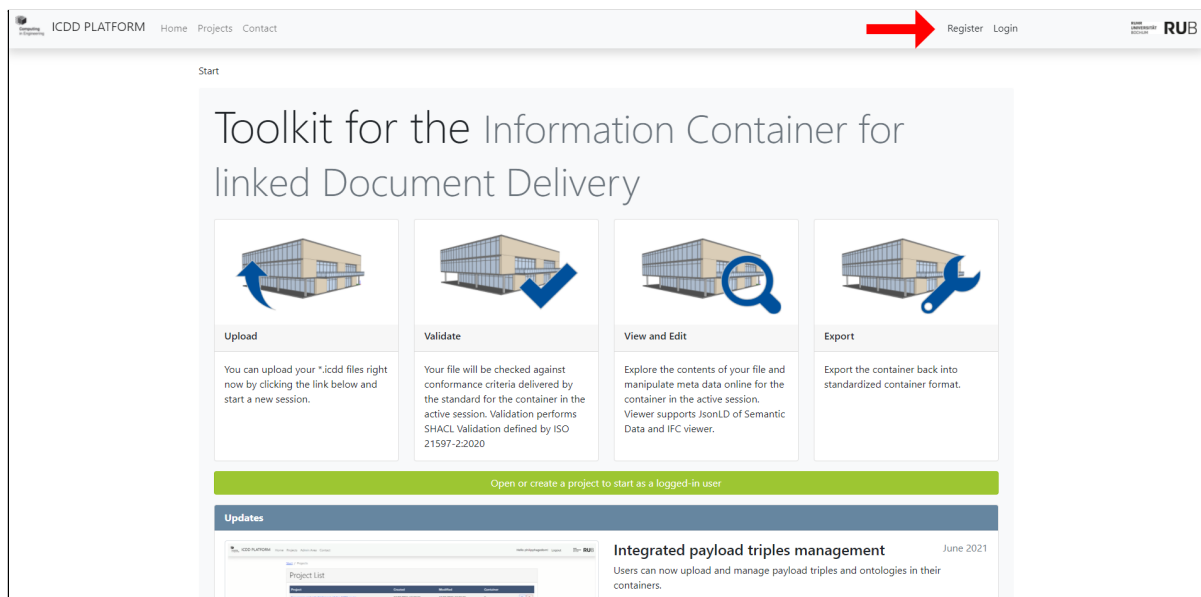
Figure 1: Homepage

2.1 Register

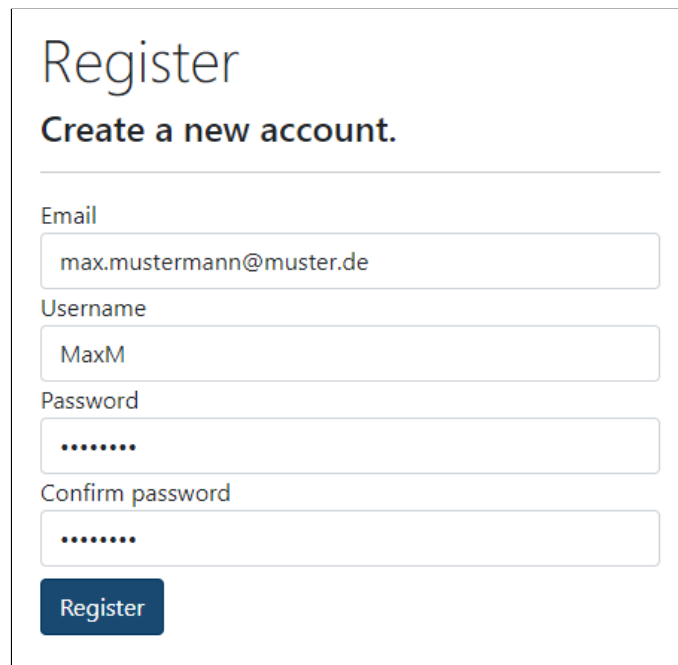To register you have to put in an email address, a username and a password (see figure 2).
The **username** has to have between 3 - 20 characters using a-z, A-Z, 0-9, . , _ , -.
The **password** must have at least 8 characters with at least one upper- and one lowercase letter, a number and a special character.
To **activate** the account an email is sent to the given email address with a link to activate the account.

2.2 Log in

After activating the account you can log in using the username and password priorly chosen. (see figure 3).

Figure 2: Register

Figure 3: Log in

3. PROJECTMANAGEMENT

Projects can be created, edited or deleted. To open the project list click the button „*Open or create a project to start as a logged-in user*" or click on "*Projects*" in the upper left corner (see figure4).
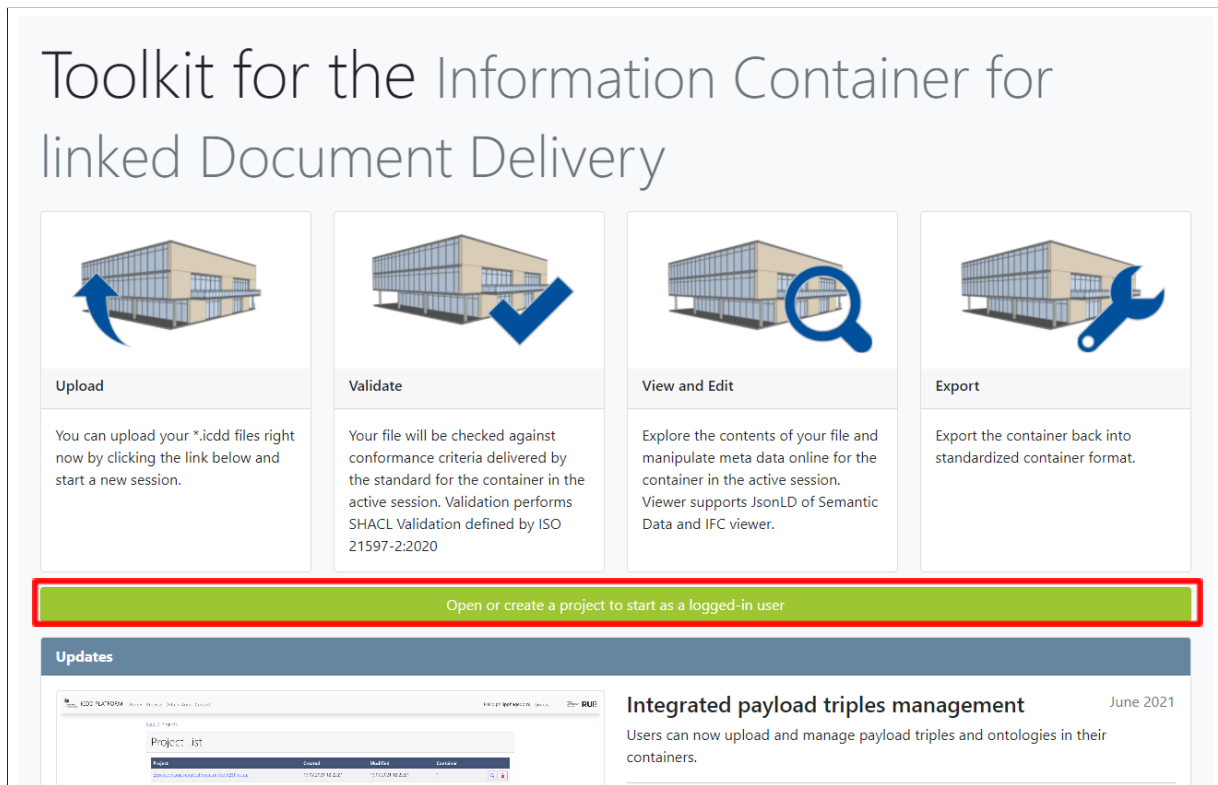

Figure 4: Homepage to Create Project

3.1   Create project

To create a project open the project list (see figure 5):
- put in a project name
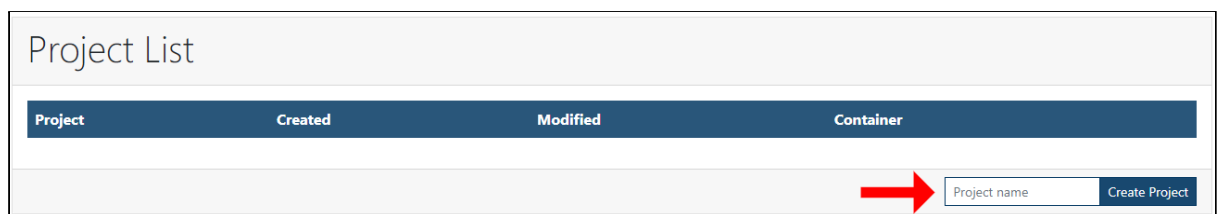- click "create Project"

Figure 5: Create Project

After creating a new project, it is listed on the "Project list" with information about the date of creation, modification and the amount of containers.

3.2   Edit project

To open a project click on the name of the project or the magnifying glass(see figure 6 & 7).

Figure 6: Project details

3.3   Delete project

To delete a project click the trash can image shown in figure 7.

Figure 7: Delete project

4. CONTAINERMANAGEMENT

In container management the containers of each project can be created, edited and deleted (see figure 6).

4.1 Create a Container

There are two ways to create a container (see figure 8):
- „Upload a Container" (A)
- „Create new Container" (B).

Figure 8: Container list

To upload a container a file, a suitability and a status have to be chosen (see figure 9). To create a new container additionally to choosing the suitability and status, a name, description and revision have to be chosen.

Figure 9: Create new Container

Special features in Suitability

Under suitability in the metadata of the container are two options called „SUITABLE_FOR_AM_MAINTENANCE„ and "SUITABLE_FOR_AM_INSPECTION„. Those options are templates for Asset Management Maintenance and Asset Management Inspection Container for the two research projects AMSFree and BIM4AMS.

4.2 Delete and export containers

There are two different ways to delete and export a container
- in the containerlist of an open project (see figure. 8 – (1))
- under the explorer in an open container using „*Remove*" or „*Export*". (see figure 10)
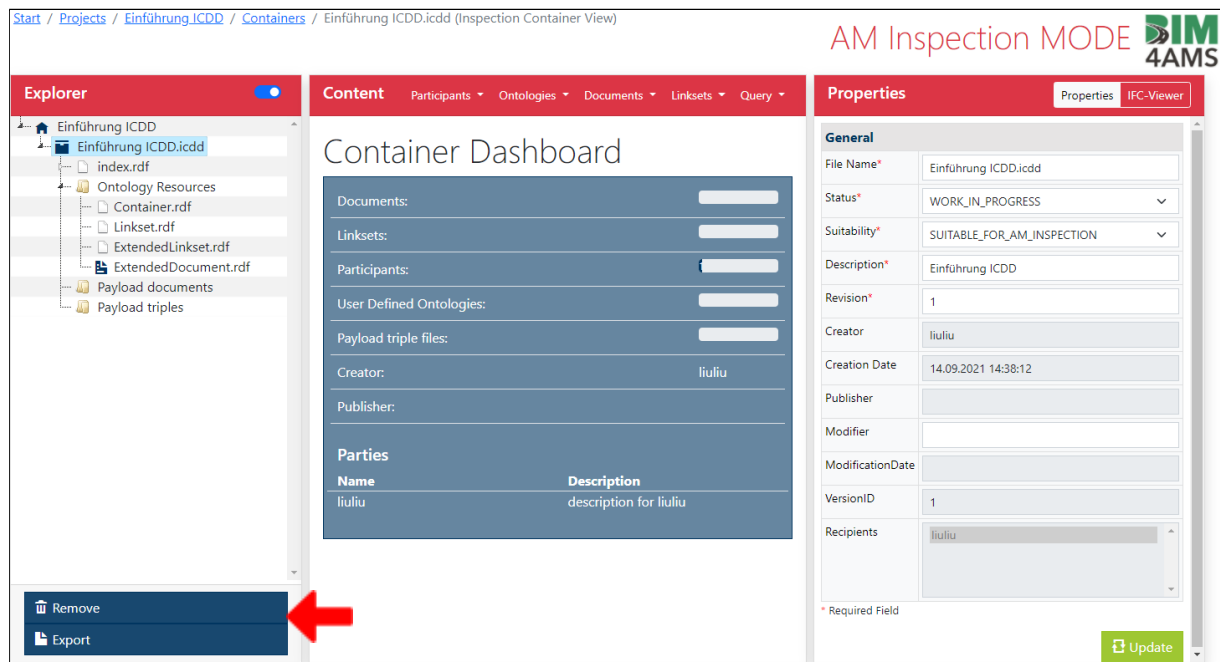
Figure 10: Container details

4.3 Edit container

In the container details the container can be edited. The container details are divided into 3 sections:
- Explorer (left)
- Content (center)
- Properties / IFC Viewer (right)

Explorer

The explorer gives an overview over the structure of the container with its three folders *Ontology Resources*, *Payload documents* and *Payload triples* and each of its contents. The explorer can be hidden or unhidden with the controller on the far right corner (see figure 11).

Figure 11: Explorer and controller

Content

Within the content window are the contents of the files and the container dashboard with information about the container. The container dashboard offers 5 ways to edit the container contents (see figure 12)

Figure12: Container Dashboard

Participants

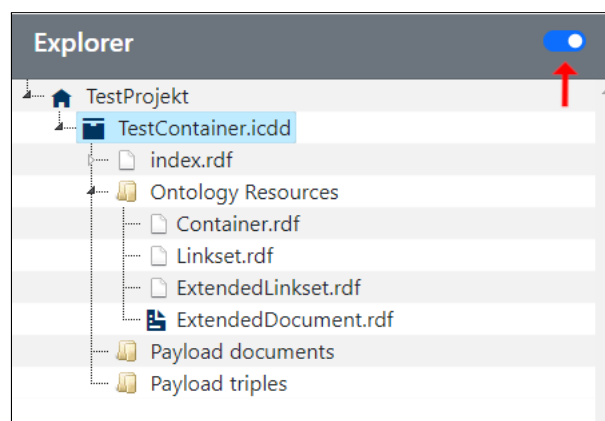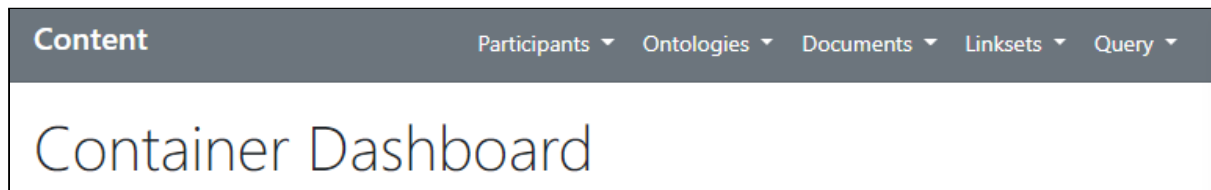Using *Add Participants* participants can be added to the container. To add a participant a name, a description and a type (*Person* or *Organisation*) have to be chosen. The added participants are listed on the dashboard under *Parties*.

Ontologies

Using *Ontologies* an ontology or a payload triple can be added to the container. To add those either enter a web URL or upload a file. The files are added to the *Ontology Resources* folder.

Documents

Internal Documents, *External Documents*, *Database Connection*s and *Folder* can be added to the container.

When adding an *Internal Document* there are two additional options: *secured* or *encrypted Document*. The documents are added to the *Payload documents* folder.

Linksets

To create a new linkset to the *Payload triples* folder use *Add Linkset*, enter a name and click *Create*. To edit and add a binary link to the created linkset go to the Payload tiples folder and use the "*Add Link"* button (see figure 13).

Figure 13: Add Link

Query

Using *QueryContainer* a SPARQL query can be written. SPARQL is a RDF query language (see figure 14).
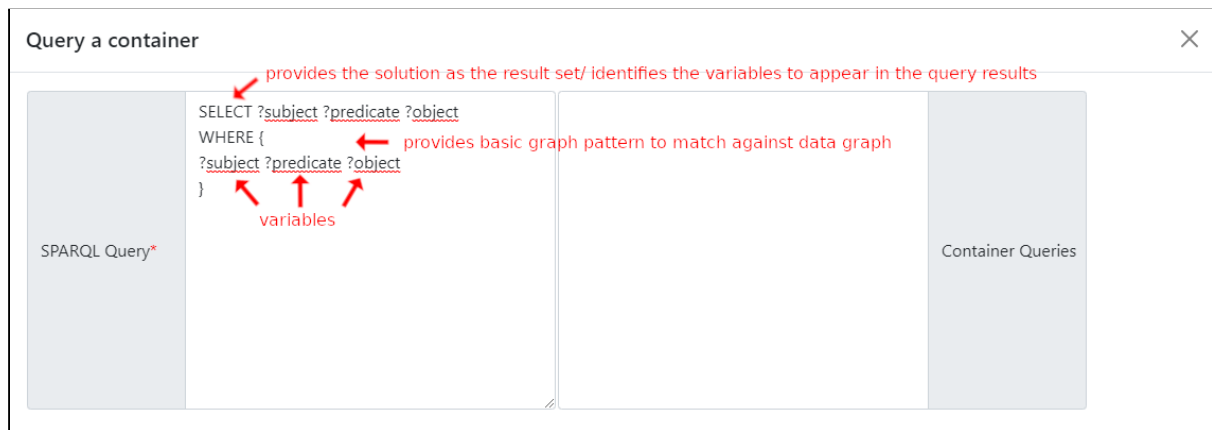
Figure 14: QueryContainer

Properties

The metadata of the container, selected when creating the container, and further information can be found in *Properties*. In *Properties* the metadata can be changed and updated.

IFC-Viewer

Additionally to the properties the IFC-Viewer can be found in "Properties" on the upper right corner. The IFC-Viewer shows the added models and the Id, the models can be activated and deactivated with the loaded controller (see figure 15)
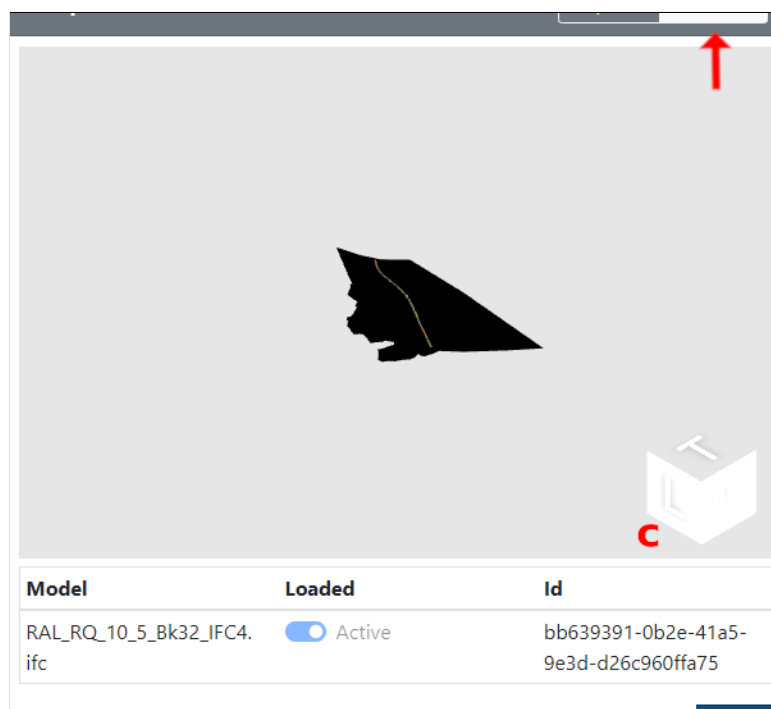

Figure 15: IFC-Viewer

Operating instructions:

Rotate model:	Cube (C) or hold left mouse key
Move entire model:	Right mouse key
Zoom in and out:	Mouse wheel
Activate/deactivate model:	Loaded controller
Select model element:	Click on it with left mouse key
Back to starting position:	Double-click left mouse key