

NET Cloud Portal manual

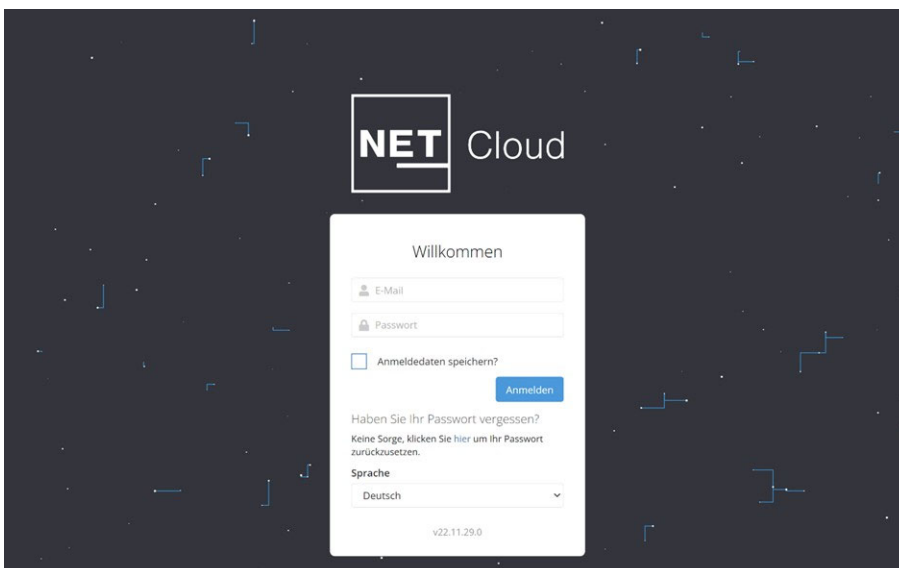
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1. General

1.1. Call and registration

To make it easier to get started, this section describes how to access and use the NET Cloud web portal.

The URL consists of the following elements **`https://{Instancename}.netcloud.run`** These URL can also be used to log in to the NET Scan app. As it is a browser-based application, it can be opened in any standard browser. Precise instructions provide support when entering the user name and password.



1 Illustration: Login via e-mail address and password

1.2. Reset password

The password can be reset by clicking on "here" in the login screen. After entering a valid e-mail address, a link to set a new password will be sent by e-mail. Please note that the e-mail address must already be stored in the NET Cloud system.



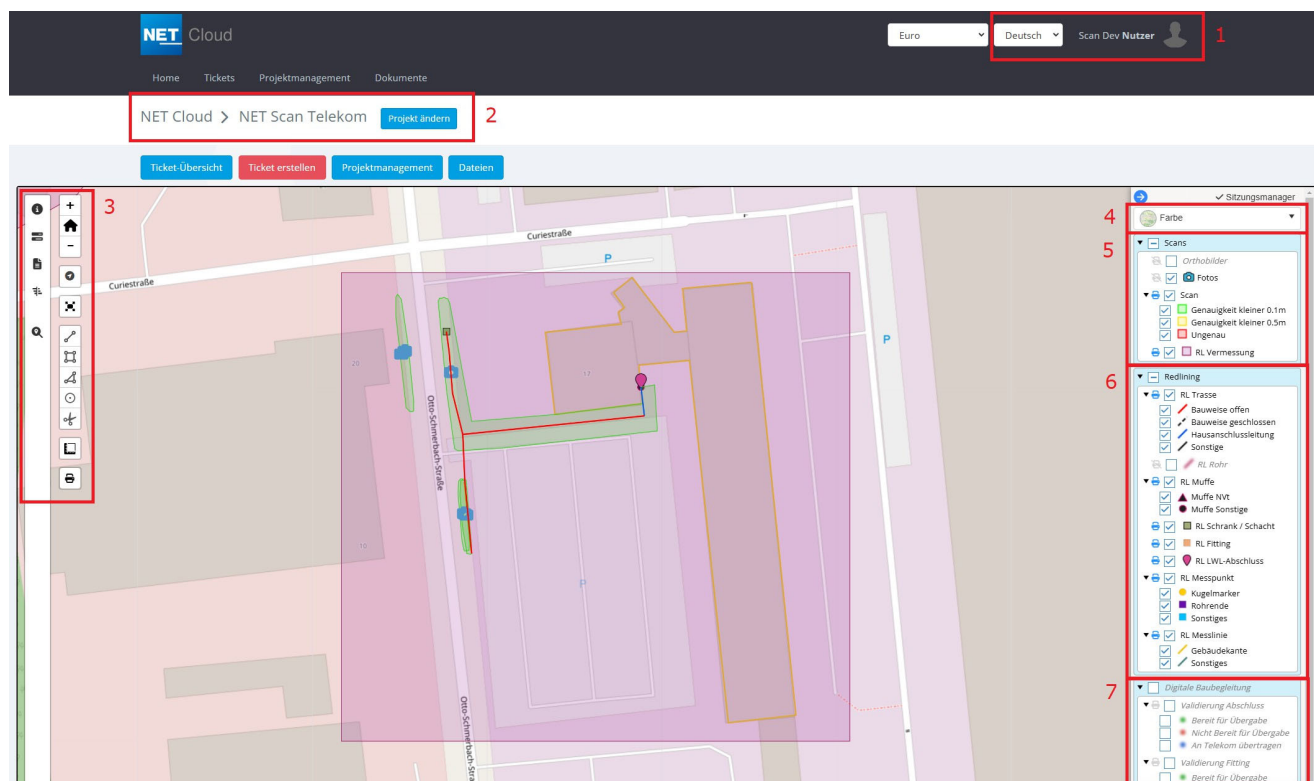
2 Figure: Entering the e-mail address to send the password link, which is valid for 30 minutes

2. Main functions of the GIS website

2.1. Map display

In NET Cloud, the map is the focus of the application. The following actions are accessible via the control elements:

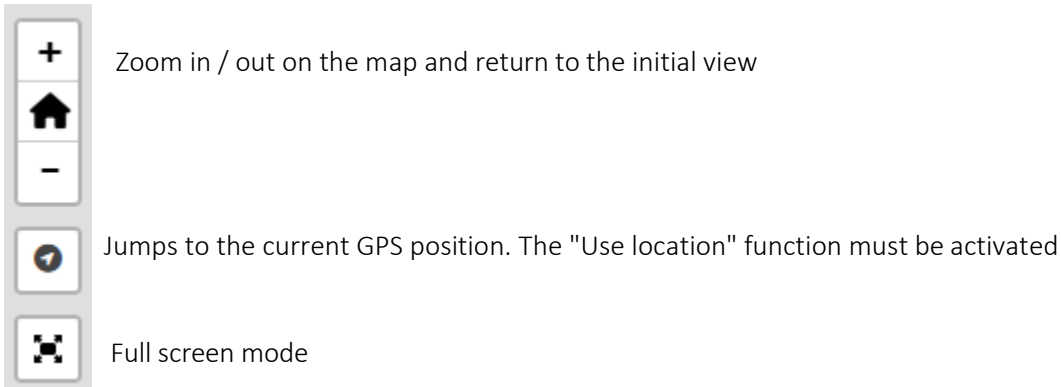
1. **Language settings:** Switch between German and English, make changes to your user account, change your password and log out.
2. **Project change:** Selection and change of the current project.
3. **Navigation and tools:** Navigation buttons, full screen mode, drawing tools, object-specific actions and the search function.
4. **Change background map:** Choose between OpenStreetMap and satellite images.
5. **Scan Layer:** Management and display of scans, orthophotos, photos and the survey areas.
6. **Redlining Layer**
7. **Redlining Views**



3 Figure: Map display

2.2. Navigation

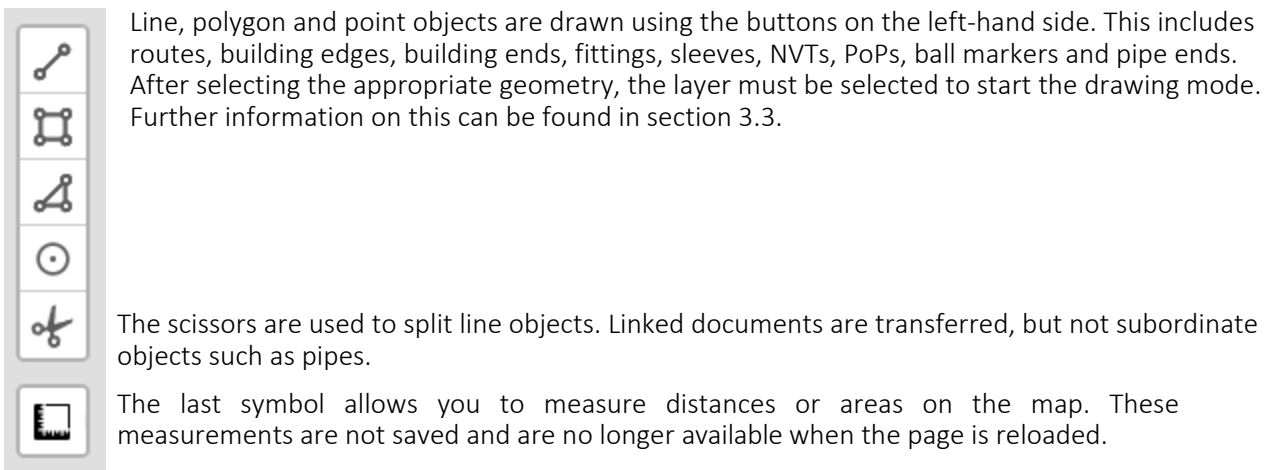
This section describes the various navigation options within the map view, including the use of zoom and pan functions and searching for specific locations or addresses.

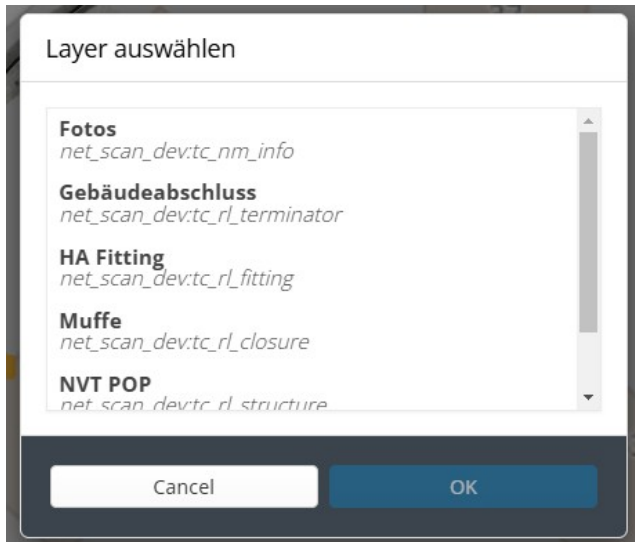


3. Drawing tools

3.1. Drawing tools

This section describes all the tools that can be used to draw on the map, including the selection of lines, shapes and text tools and their specific applications.





4 Illustration: Selecting the layer for drawing

3.2. Object-related tools

This section provides an overview of the toolbar, explains the functions of the individual icons and how to use them effectively to create and edit drawings.



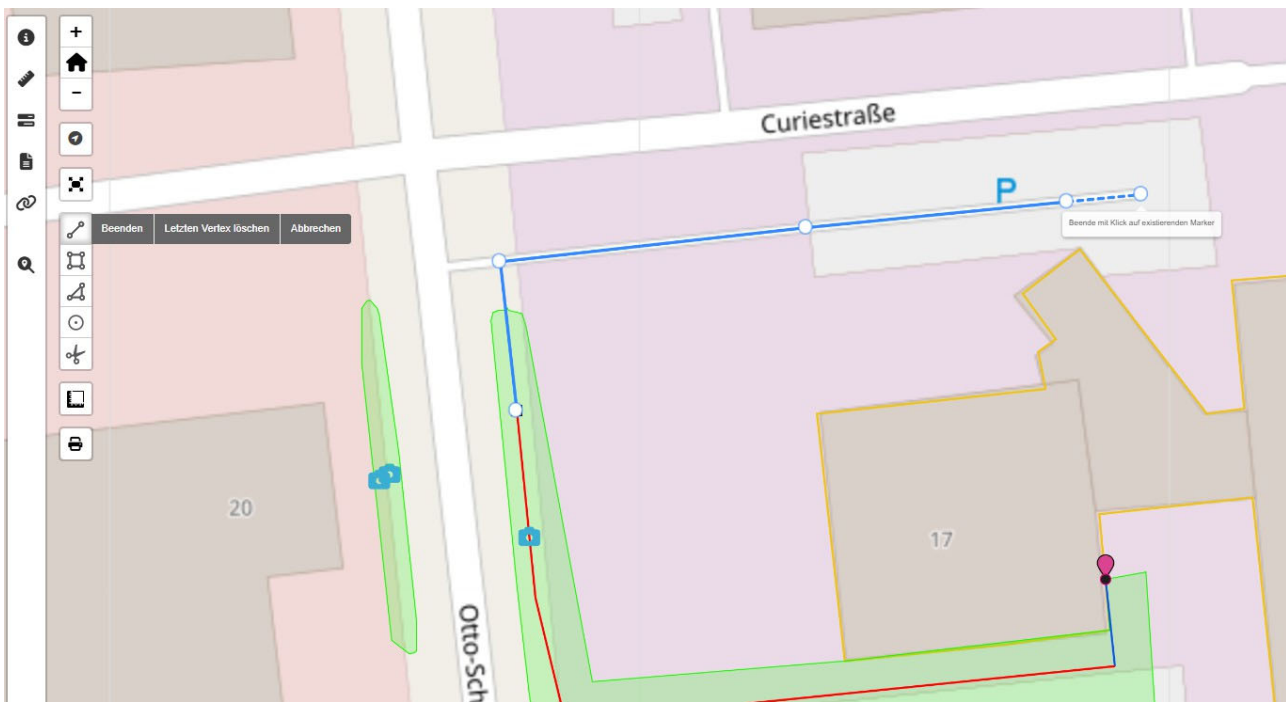
The **i symbol** shows information about the respective object, such as creation date, creator and FID (unique identifier of the object within the database). The **second icon** contains links to tickets, if tickets have been created within NET Cloud. The **document icon** provides links to photos, documents or scans that are linked to the object.

The **chain symbol** refers to linked or subordinate objects, such as the pipes in a route.

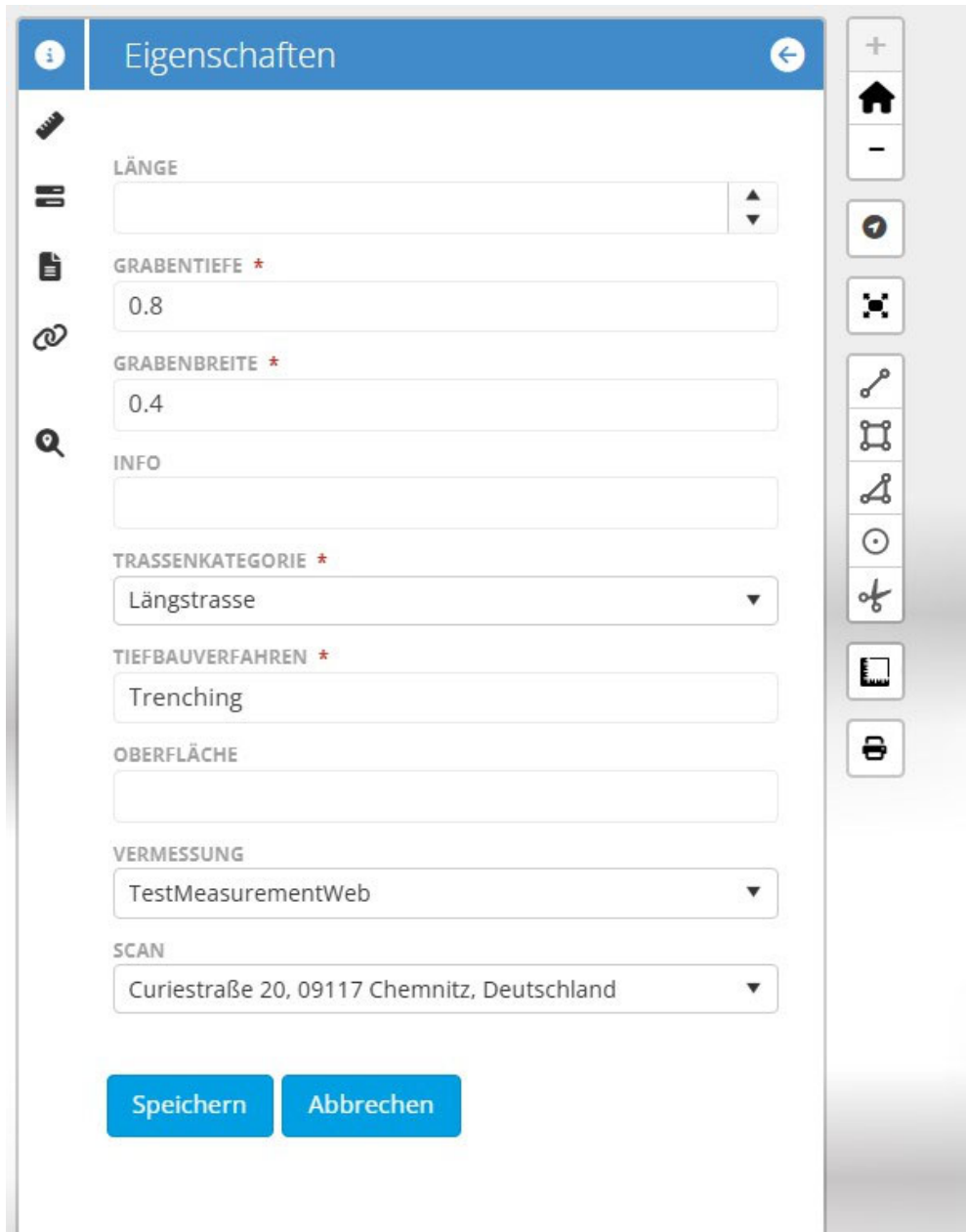
The **search icon** allows you to search for an address in the respective country or a detailed object search, which is set up differently from layer to layer.

3.3. Drawing and editing

After selecting the layer on which you want to draw, you are taken to the digitizing mode. All points can be set intuitively here. Use the right mouse button to delete support points and double-click to complete the line. The latter is also possible via the "Finish" button. The attribute fields of the object must then be filled in. Mandatory fields are marked with a red asterisk. The object creation process cannot be completed without filling in these fields. The entries are then confirmed with "Save". Subsequent editing is possible.



5 Figure: Digitize route



Eigenschaften

LÄNGE

GRABENTIEFE *

0.8

GRABENBREITE *

0.4

INFO

TRASSENKATEGORIE *

Längstrasse

TIEFBAUVERFAHREN *

Trenching

OBERFLÄCHE

VERMESSUNG

TestMeasurementWeb

SCAN

Curiestraße 20, 09117 Chemnitz, Deutschland

Speichern **Abbrechen**

6 Illustration: Editing the attributes of the object. Please enter the depth and width in meters. The length is determined automatically.

3.4. Digitize pipes in routes

The following is about creating pipes in routes. To avoid incorrect assignment, the pipe must be created within the route. To do this, use the chain symbol in the left-hand bar in the route. There you will find a button for creating a new pipe. An input screen for the pipe attributes then appears. The type, route, measurement and scan are mandatory fields. The route is automatically taken from the parent element. After saving, the pipe is created and assigned to the route. All changes to the pipe are discarded by clicking "Cancel".

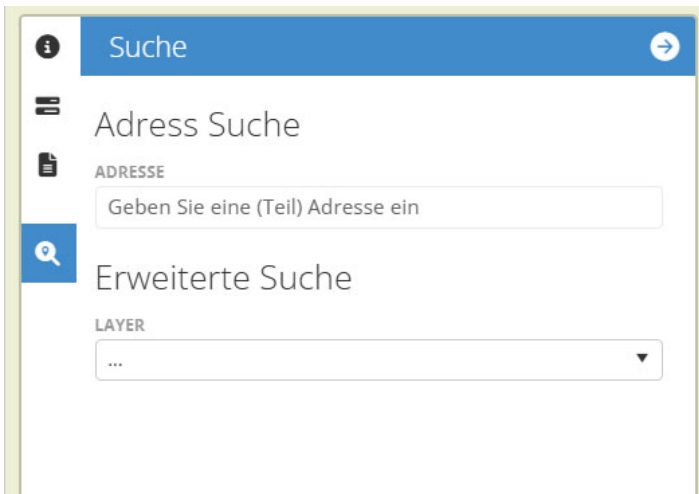
The screenshot displays the software interface for creating pipes in routes. On the left, the 'Verknüpfte Layer' (Linked Layers) panel shows a tree structure with 'RL Trasse' and 'RL Rohr'. A red box highlights the 'Neue(s) RL Rohr' button, which is linked by a red line to the 'Eigenschaften' (Properties) dialog on the right. The 'Eigenschaften' dialog is titled 'RL Rohr' and features a 'Zurück' (Back) button. It contains the following fields and controls:

- NAME: Text input field.
- TYP *: Dropdown menu with '...'.
- FARBE 1: Dropdown menu with '...'.
- FARBE 2: Dropdown menu with '...'.
- POSITIONSNUMMER: Text input field with up/down arrows.
- NAME NETZKNOTENPUNKT: Text input field.
- TRASSE *: Dropdown menu with '11257' selected.
- VERMESSUNG *: Dropdown menu with '...'.
- SCAN *: Dropdown menu with '...'.
- Buttons: 'Speichern' (Save) and 'Abbrechen' (Cancel).

7 Figure: Digitizing pipes in routes

3.5. Search, find and export objects

The address search can be used in a similar way to other map services. The city, street and house numbers are entered and possible hits are displayed. When a data record is selected, the map jumps to the GPS position.



The screenshot shows a web interface for searching. At the top, there is a blue header bar with the word 'Suche' and a search icon. Below this, there are two main sections. The first section, 'Adress Suche', has a sub-header 'ADRESSE' and a text input field with the placeholder 'Geben Sie eine (Teil) Adresse ein'. The second section, 'Erweiterte Suche', has a sub-header 'LAYER' and a dropdown menu with three dots and a downward arrow.

8 Illustration: The two variants of the search

The **advanced search** makes it possible to search objects in the database for specific values, for example all scans within a survey. To do this, the "Scan" layer must be selected under "Layer" and the desired region to be filtered under "Survey". By clicking on the "Search" button, all results are listed in a table and highlighted on the map. To remove the highlighting, you can use the new button with the crossed-out eye. For an export to Excel, there is a button in the table that downloads the results directly as an Excel file.

Suche

Erweiterte Suche

LAYER: Scan

FID:

NAME:

VERMESSUNG: TestMeasurementWeb

GPS GENAUIGKEIT:

SCAN-DATEI URL:

TELEKOM UPLOAD STATUS:

ERSTELLT AM: STARTDATUM: Tag.Monat.Jahr Stunde... ENDDATUM: Tag.Monat.Jahr Stunde...

ERSTELLT DURCH:

Suchen Abbrechen

Suchergebnisse (7)

Alles exportieren (Excel)

Details	FID	Vermessung	Name
◆	11151	TestMeasurementWeb	Curierstraße 19. 09117 Chemnitz, Deutschland
◆	11224	TestMeasurementWeb	Curierstraße 19. 09117 Chemnitz, Deutschland

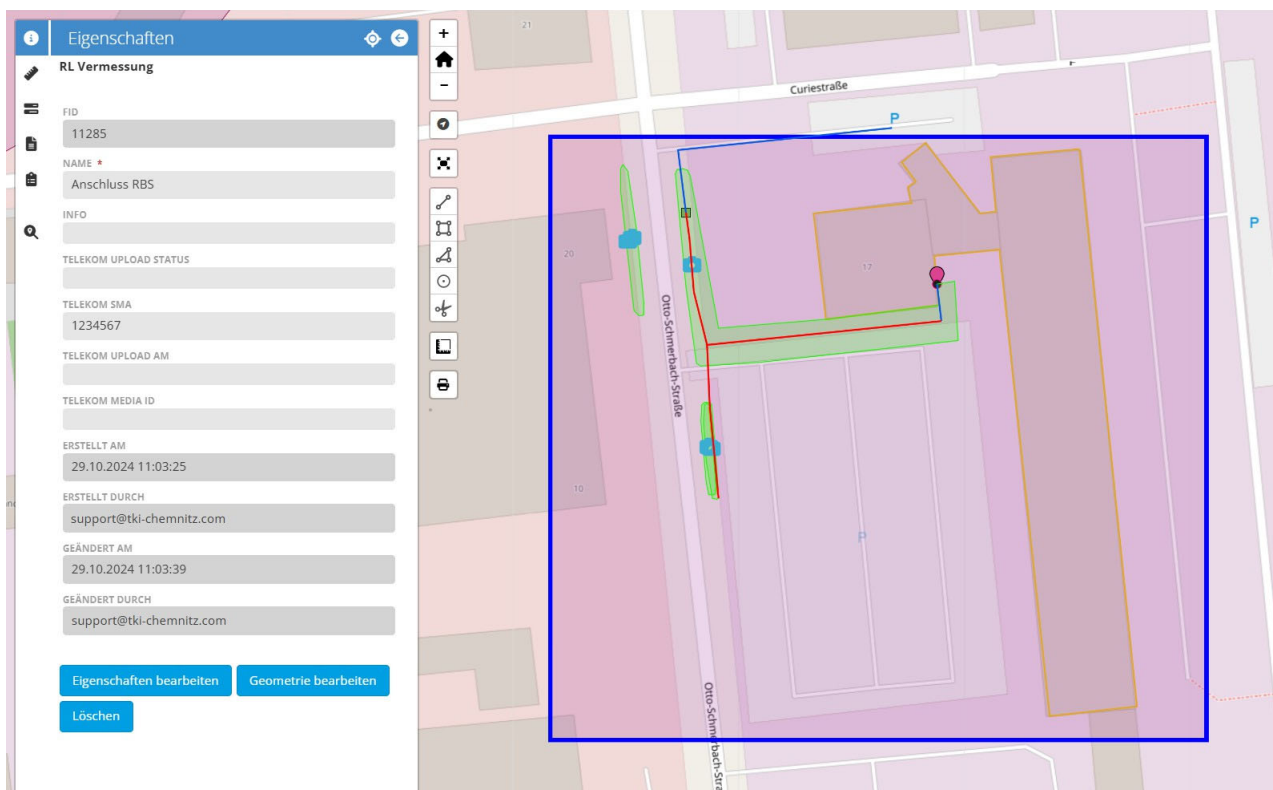
The map on the right shows a street layout with buildings. A red line indicates a path or boundary. A red box highlights a specific area on the map. The map includes labels for 'Curierstraße' and 'Otto-Schmied-Straße'.

9 Advanced search

4. Upload to Telekom

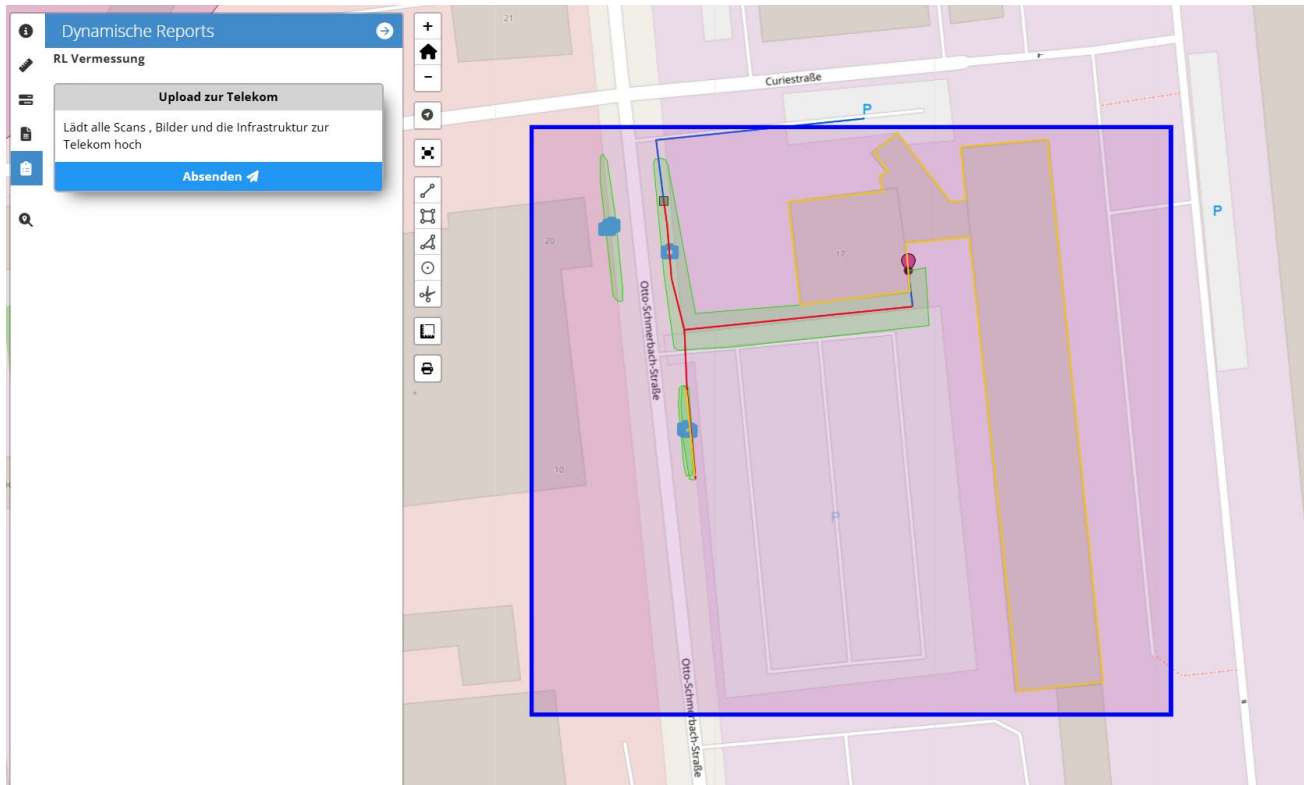
4.1. Requirements and upload

Some layers and attributes are required for the upload to Telekom. These are marked as mandatory fields in the corresponding objects and are automatically filled in from the NET Scan app if the data was entered directly in the field. First of all, it is important that there is an **RL measurement** that has a **name** and an **SMA** (assigned by Telekom). If a new object (such as a scan, route, etc.) is created within this survey, the two objects are automatically linked. It is therefore advisable to create the survey first. Subsequent linking is more difficult to implement.



10 Figure: Measurement with name and SMA

There is another button in the measurement bar that can be used to send the data to Telekom. Sending should usually take no longer than one minute. The message "Successful" should then appear at the bottom right of the screen.



11 Figure: Upload button in the dynamic reports

If the upload was successful, there is now a "Telekom Status = Uploaded" attribute in the measurement. In addition, a MediaID has been received and the upload date has been set. If an "Unknown error" occurs, the MediaID can be deleted and the transfer can be attempted again.

Eigenschaften

RL Vermessung

FID

11285

NAME *

Anschluss RBS

INFO

TELEKOM UPLOAD STATUS

Uploaded

TELEKOM SMA

123456

TELEKOM UPLOAD AM

29.10.2024 01:00:00

TELEKOM MEDIA ID

637adf15-1bbd-418e-970c-9d5504c2d531

ERSTELLT AM

29.10.2024 11:03:25

ERSTELLT DURCH

support@tki-chemnitz.com

GEÄNDERT AM

29.10.2024 16:22:54

GEÄNDERT DURCH

support@tki-chemnitz.com

Eigenschaften bearbeiten

Geometrie bearbeiten

Löschen

12 Illustration: Attributes after a successful upload

4.2. Transfer data

The following data is transferred to Telekom if it is available. Repeated transfer is basically possible, as all scans and photos are given a MediaID in the NET Cloud and are therefore marked as "already uploaded". In contrast to the network map, these are not transferred again.

The starting point is the survey. All network objects that are **linked** to this **measurement** and that are also **linked to a scan** are selected for upload.

This affects the following layers:

Hausanschlussleitung / Längstrasse - Tiefbauverfahren - Grabenbreite in Meter - Verlegetiefe in Meter - Erfasst am - Materialcodes der verbauten Rohre	Hauseinführung APL - Erfasst am
	Gebäudekante - Erfasst am
	Kugelmarker - Erfasst am
Muffe / NVT - Erfasst am - Materialcode	Rohrende - Erfasst am
Rohrunterbrechung - Erfasst am	

The following example shows a fiber optic termination. The fields **Measurement**, **Scan** and **Created on** must be filled in. The creation date is automatically filled in by the NET Cloud and cannot be changed by the user.

Eigenschaften

RL LWL-Abschluss

FID

11267

NAME

Hauseinführung RBS

TYP

Hauseinführung APL

VERMESSUNG *

TestMeasurementWeb

SCAN *

Otto-Schmerbach-Straße 17, 09117 Chemnitz,
Deutschland

ERSTELLT AM

25.10.2024 12:37:52

ERSTELLT DURCH

support@tki-chemnitz.com

GEÄNDERT AM

25.10.2024 12:52:18

GEÄNDERT DURCH

support@tki-chemnitz.com

Eigenschaften bearbeiten

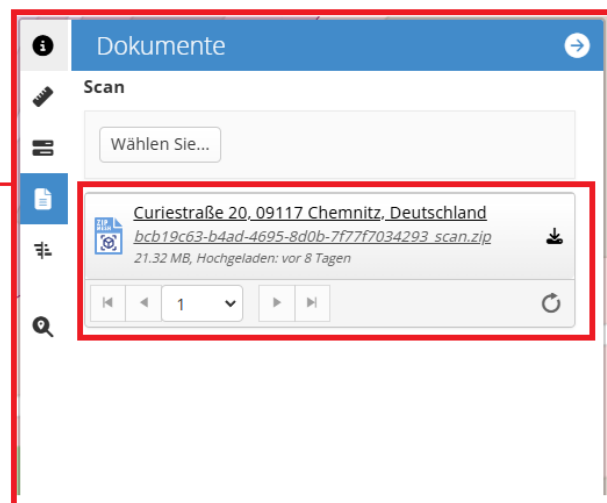
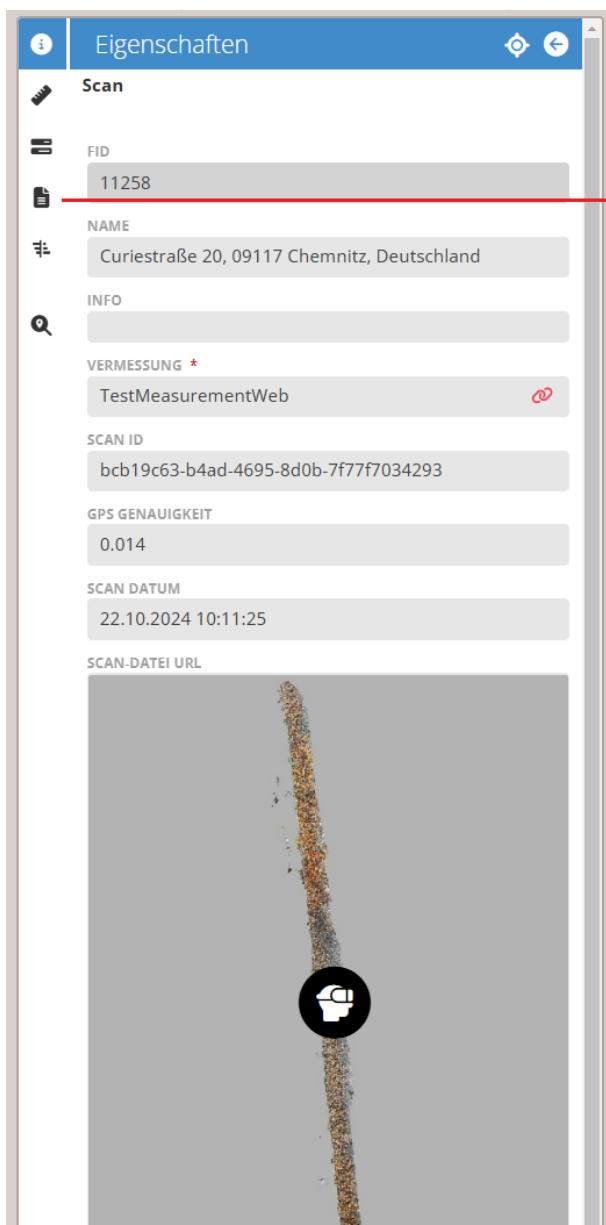
Geometrie bearbeiten

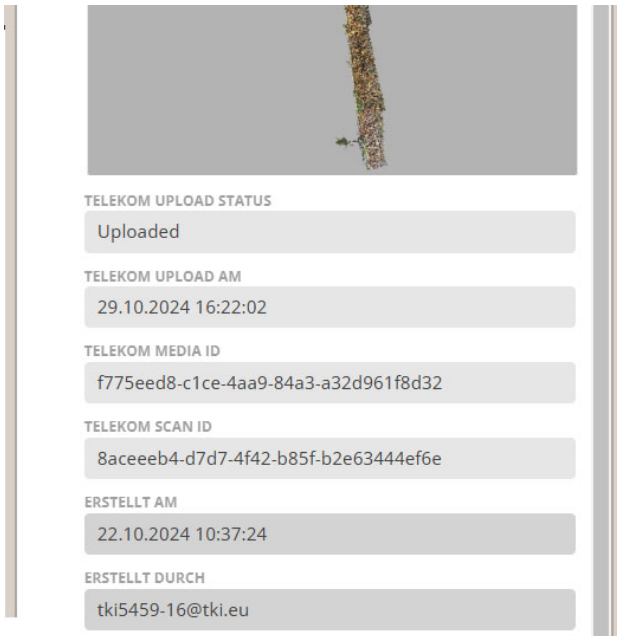
Löschen

13 Figure: Mandatory attributes for FO terminations

4.3. Upload scans and photos

For the scans and photos to be uploaded successfully, the scans must be assigned to a measurement and linked to a 3D scan. If photos are also to be uploaded, these must also be assigned to the scan object. The scan ID is the unique reference of the 3D scan in the NET Cloud system and must not be confused with the Telekom Scan ID. The Telekom Scan-ID is the unique reference of the scan in the Digital Construction Monitoring. The GPS accuracy, specified in meters, describes the precision of the scan. The scan date is determined directly from the scan and indicates when it was recorded. The date on which the scan was uploaded to the NET Cloud is noted in the "Created on" field and cannot be changed. As soon as a 3D scan including photos has been transferred, this is noted as "Uploaded" in the "Telekom Upload Status". The date of the upload to Telekom and the media ID that the scan receives within the Telekom system are also noted. Each 3D scan and each photo is given its own media ID, which is stored in the NET Cloud blobs.





14 Figure: Successfully uploaded 3D scan

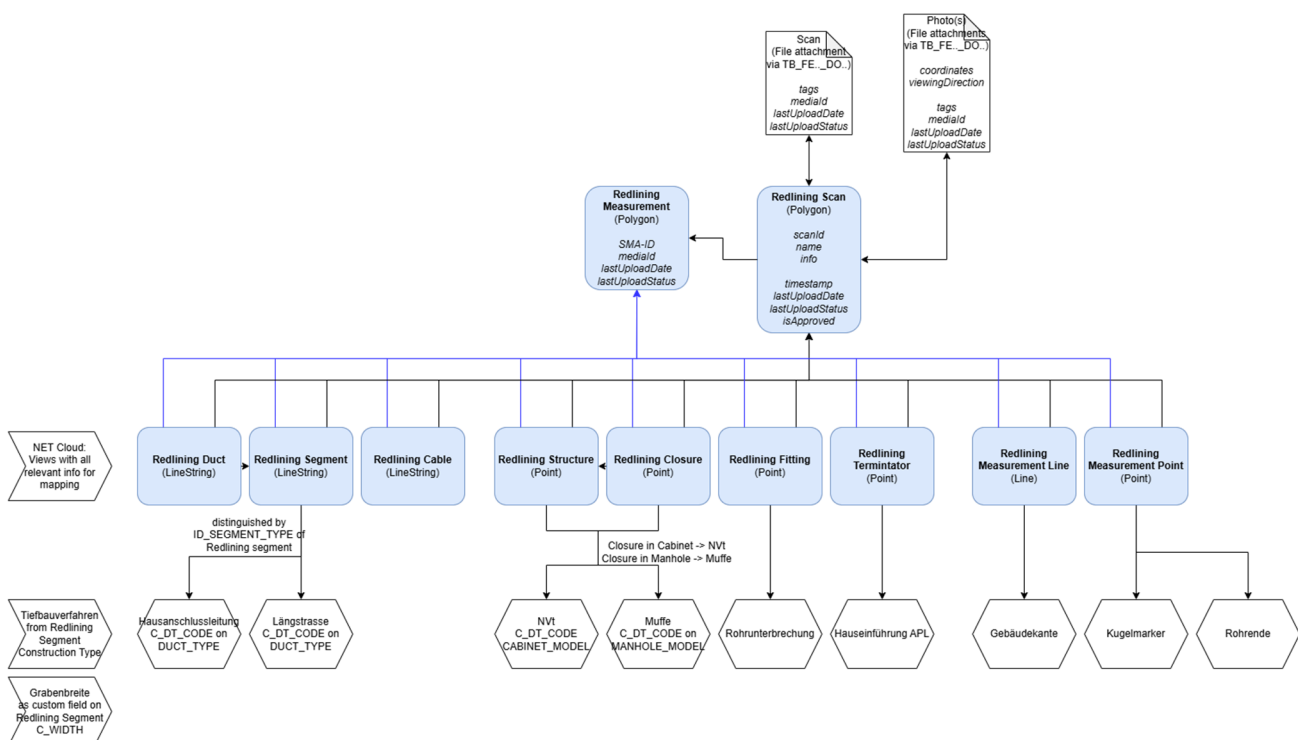
5. Support and help

Further detailed information on NET Cloud can be found in the TKI Helpdesk under NET Cloud

<https://help.tki-chemnitz.de/hc/de/categories/4409540414610-NET-Cloud>

6. Appendix

6.1. Data model specification



15 Figure: Data model specification