



SOCIAL
NETWORK
HARVESTER
1.19

USER MANUAL

Based on software version 1.19.0

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01 GENERAL REMARKS

Social Network Harvester (SNH) is the software solution for harvesting, analyzing and visualizing friendships on social media. Identify previously unknown groups and intersections. View key network elements at a glance.

Save time and resources with fast, automated online data collection. Previously retrieved data can be updated automatically at any time. The program's modular design allows you to analyze a wide range of different networks. Its integrated visualization capabilities offer quick previews of groups. Export the entire network or individual parts of it for further external processing.

SNH only uses public, ubiquitously available data from social networks.

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IMPORTANT INFORMATION

Never use personal, private or other “important” accounts when working with this software.

02 INSTALLATION

SYSTEM REQUIREMENTS

MINIMUM

- Microsoft Windows 7/8/10 (64-bit)
- Processor: Intel Core i5
- RAM: 8 GB
- HDD storage capacity: 1 TB
- Monitor: 24 inches
- 1440 x 900 resolution

RECOMMENDED

- Recommended: Windows 10 (64-bit)
- Processor: Intel Core i7 (3.4 GHz)
- RAM: 16 GB
- Storage capacity: min. 2 TB SSD
- Monitor: two 24-inch monitors or min. one 34-inch curved monitor

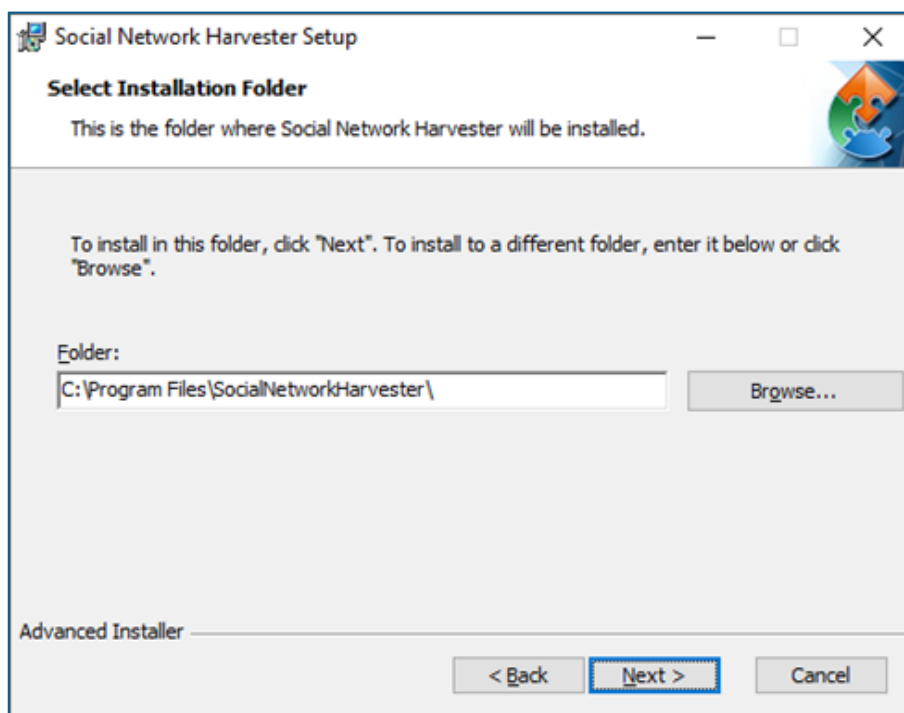
INSTALLING SNH

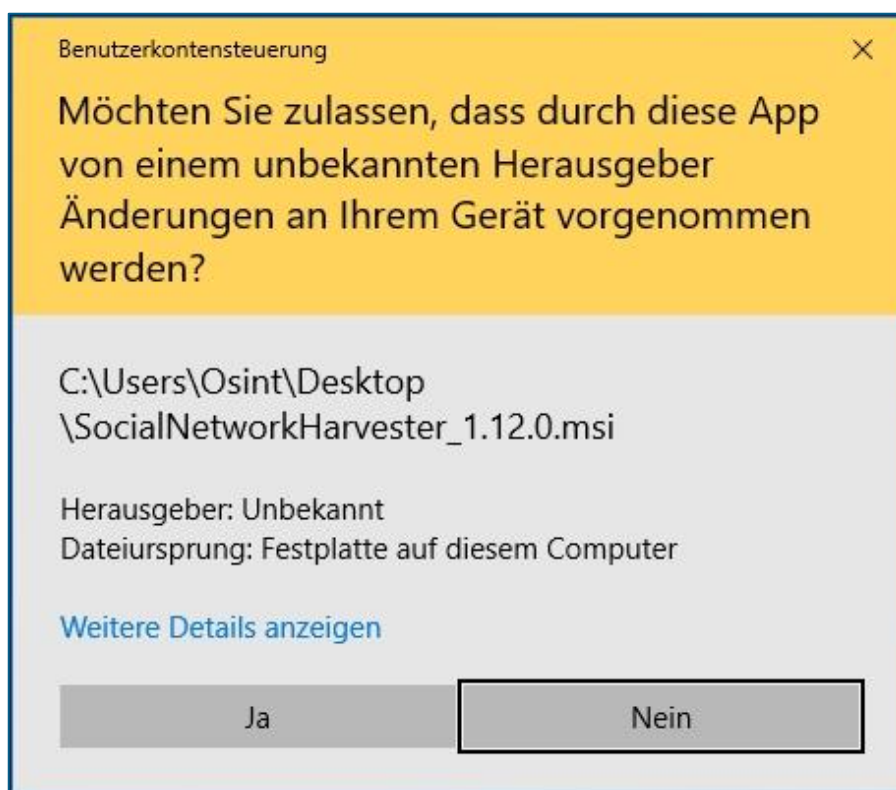
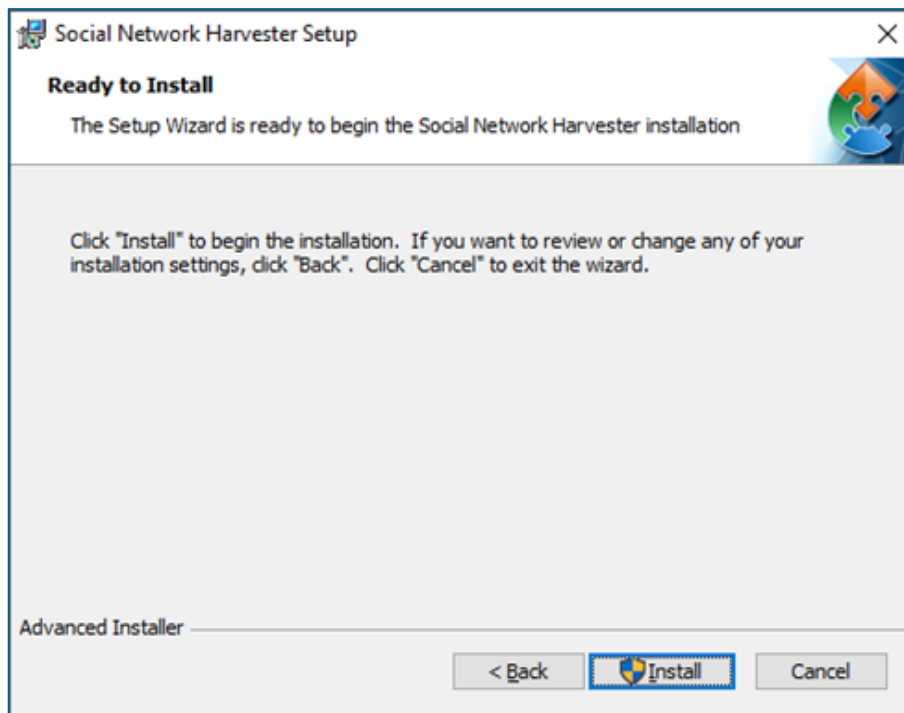


Launch the Social Network Harvester installation by double-clicking on the program icon featured above. The Setup Wizard opens. Follow the Setup Wizard instructions:

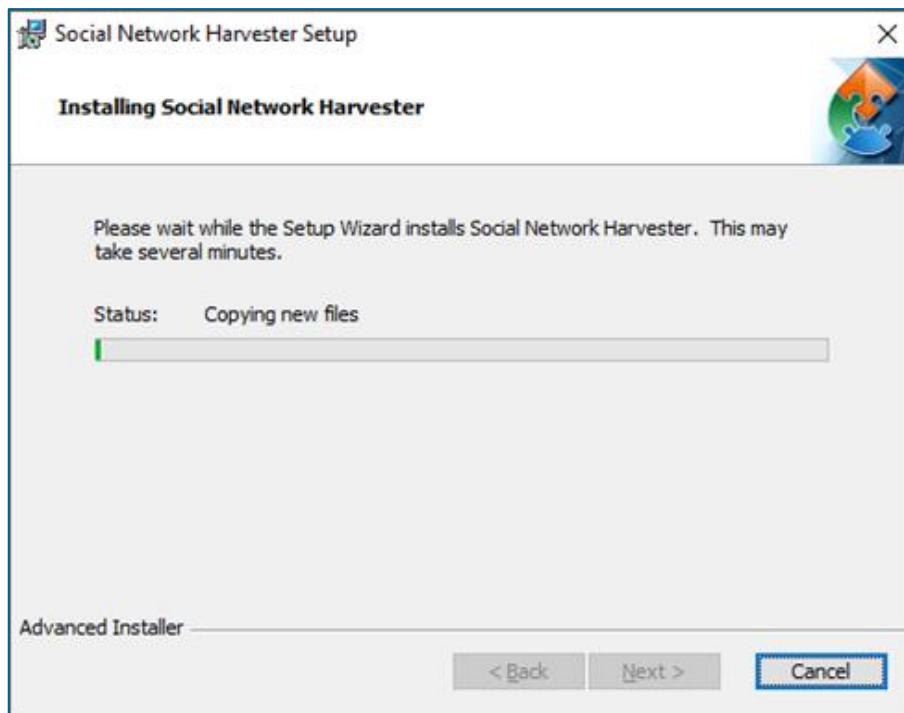


Change the installation folder if necessary.





Confirm the User Account Control (UAC) prompt.



You can launch Social Network Harvester automatically immediately following the installation routine.

Read the Release Information to learn about the latest features in the current version. You can access this information during the installation routine by clicking "View readme file".

UNINSTALLING SNH

Launch the Social Network Harvester uninstall routine by double-clicking the program icon under “Install Social Network Harvester”.

Follow the instructions in the uninstall routine and confirm the UAC prompt.

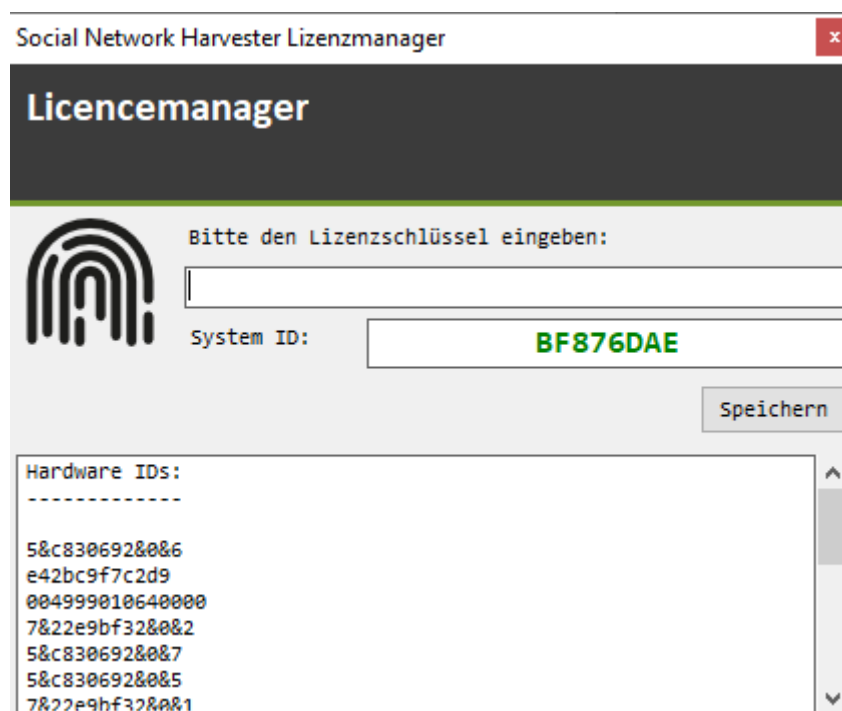
03 LAUNCHING THE PROGRAM, WORKSPACE

To launch SNH, select “Start – Social Network Harvester”

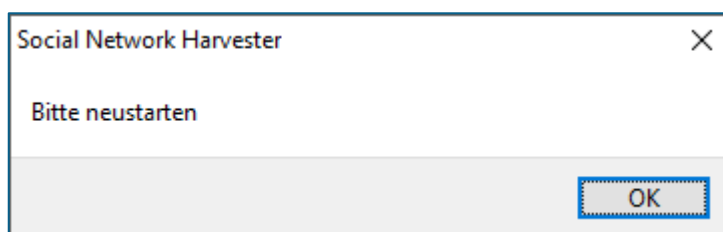
Alternatively, you can launch SNH by double-clicking the desktop link.

ENTERING THE LICENSE

The first time you run the program a window opens prompting you to enter your license key. You will find the key on your USB dongle in a text file called “Lizenz.txt” or you will receive the key from our customer support.



Then click “Save” to confirm. The following prompt appears:



Click OK and then close SNH. Restart the program. Now you should no longer be prompted to enter the license key. Always make sure the dongle that is provided is inserted into the USB port.

If you arranged licensing via a hardware ID (system ID) with our customer support, you will also find this in the license manager. Please note that the hardware ID depends on the system's network interfaces. Changes to interfaces

will also result in changes in the hardware ID, thus resulting in a licensing conflict.

WORKSPACE

The SNH Facebook module is shown below for illustration purposes. Other modules are operated in the same way.

OVERVIEW

When you open Social Network Harvester you will see the following startup screen:



After opening or creating a case the browser view opens and additional navigation options appear.

NAVIGATION PANE

The following navigation options are available:

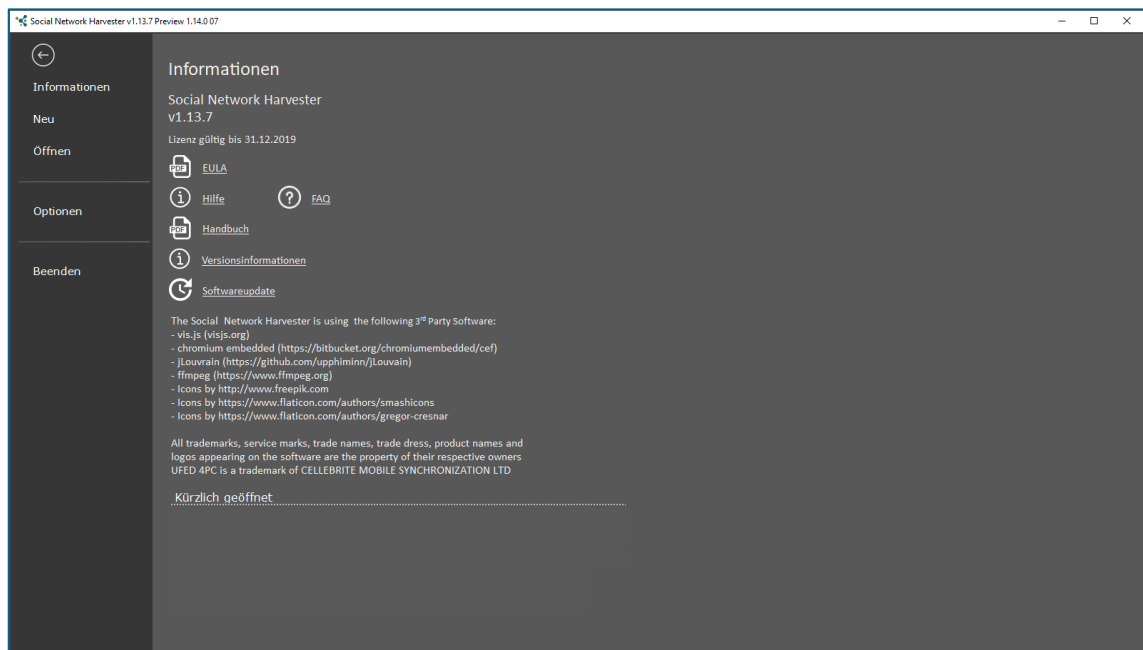


- **Browser**
The homepage of the selected social network (here: Facebook) opens:
See the section on “Harvesting data” for more on this.
- **Data explorer**
You can use the data explorer to analyze your stored data, collect new data and identify important profiles.
See the section on the “Data explorer” for more on this.
- **Posting explorer**
The Posting explorer allows you to analyze saved posts including images, videos, comments and reactions.
See the section on the “Posting explorer” for more on this.
- **Media explorer**
You can use the Media explorer to analyze saved photos and videos with all of the related, additional information.
See the section on the “Media explorer” for more on this.
- **Dashboard**
The dashboard offers you a quick overview of key information and harvested contacts (friends, likes, comments) for a particular user.
See the section on the “Dashboard” for more on this.
- **Chat explorer**
The chat explorer prepares information from saved chat messages and makes them available to you.
See the section on the “Chat explorer” for more on this.
- **Network analysis**
You can use the network analysis feature to show all of the networks in your harvested data and identify special characteristics.
See the section on “Network analysis” for more on this.
- **Analytics**
Analytics offers you graphical visualization capabilities based on profiles, pages and groups as well as posts, media and comments. It enables you to visualize connections based on friendships, reactions (likes) or comments.
See the section on “Analytics” for more on this.

To open the menu click on the menu icon in the top left corner:



The following window appears:



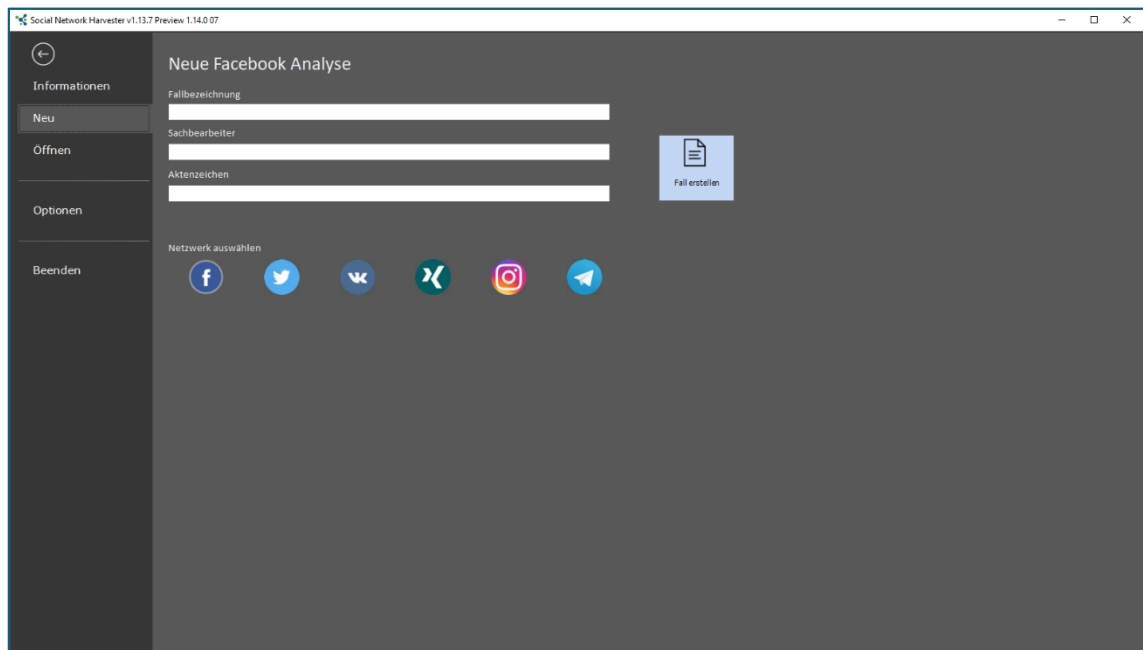
The following menu options are available:

- Information
- New
- Open
- Options
- Close

MENU OPTION: INFORMATION

This option offers you information on the current version number, license term, end user license agreement (EULA), help, FAQ and handbook, version information, options for determining whether updates are available and information on the open source elements used along with the most recently opened files.

MENU OPTION: NEW



You can enter a new case here. Select the desired network and click “Create case”.

MENU OPTION: OPEN

You can enter a previously created case here.

MENU OPTION: OPTIONS

Under Options you can choose the desired language, the Profile manager and the user agent. If a case is opened, you can change the case meta data.

Configuration

×

Config

System

View

View

(UTC) Koordinierte Weltzeit

▼

All timestamps are saved in UTC. Please choose a timezone, in which you want, the timestamps have to be shown.

Language

English

▼

Save

PROFILE MANAGER

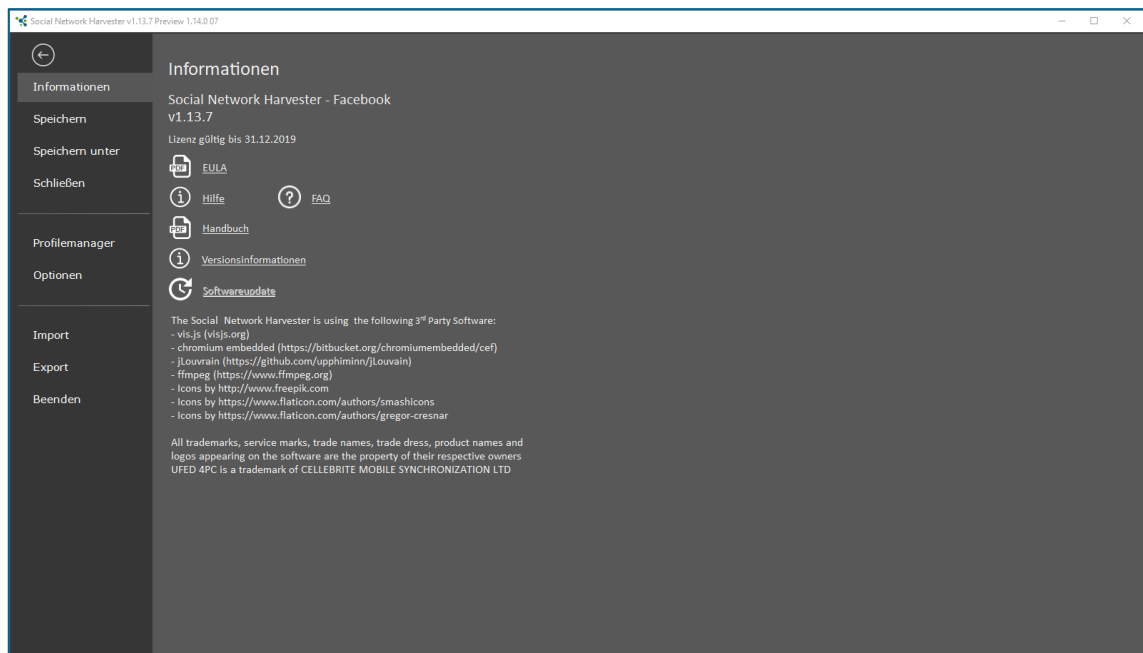
You can toggle between single and rotating profile use here.

MENU OPTION: CLOSE

Click “Close” to close the current session.

ADVANCED MENU OPTIONS

If a new case is created or an existing case is opened the workspace and the menu will change as outlined below.



MENU OPTION: PROFILE MANAGER

The Profile manager takes over full administration of the accounts and coordinates the use of each individual account. Now it is possible to simultaneously store individual harvests even with multiple profiles. This prevents excessive blocks on harvesting profiles.

Profile manager features

- Automatically log into accounts.
- Determine the block status of an account and switch automatically.
- Coordinate and use multiple profiles for separate harvests.

PROFILE MANAGER


Newer versions of SNH (v.13.5 and later) require you to re-enter harvest accounts into the software. This is why the Profile manager opens the first time you create a case or open an SNH file following the program update.

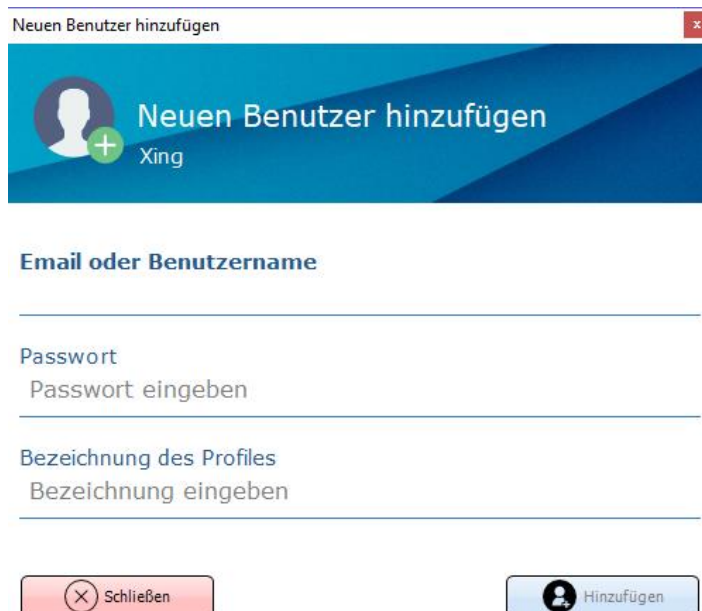
A primary profile can also be selected for the rotation.

ROTATION PROFILE

If you want to perform multiple harvests to avoid the possibility of blocks with multiple profiles (rotation), then the profiles to be used must be marked as “Rotation profiles”.

CREATE A NEW HARVEST PROFILE

The  button launches the Wizard for creating a new harvest profile:



Neuen Benutzer hinzufügen

Neuen Benutzer hinzufügen
Xing

Email oder Benutzername

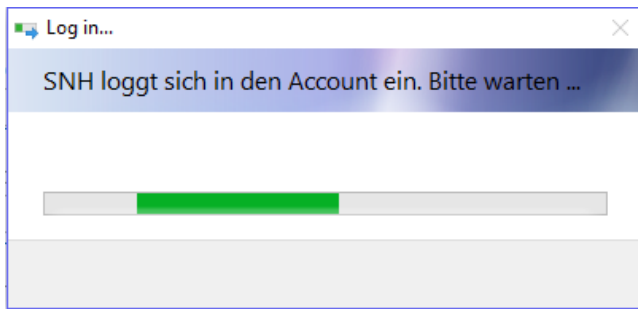
Passwort
Passwort eingeben

Bezeichnung des Profiles
Bezeichnung eingeben

Schließen Hinzufügen


Field	Description
Email or user name	The corresponding user ID for the network is entered into the “Email or user name” field. When you click on the field, SNH opens an information field indicating the relevant user ID.
Password	Password for the account. Please note that SNH stores the password on the harvest computer.
Profile description	Free text field for naming the harvest profile.

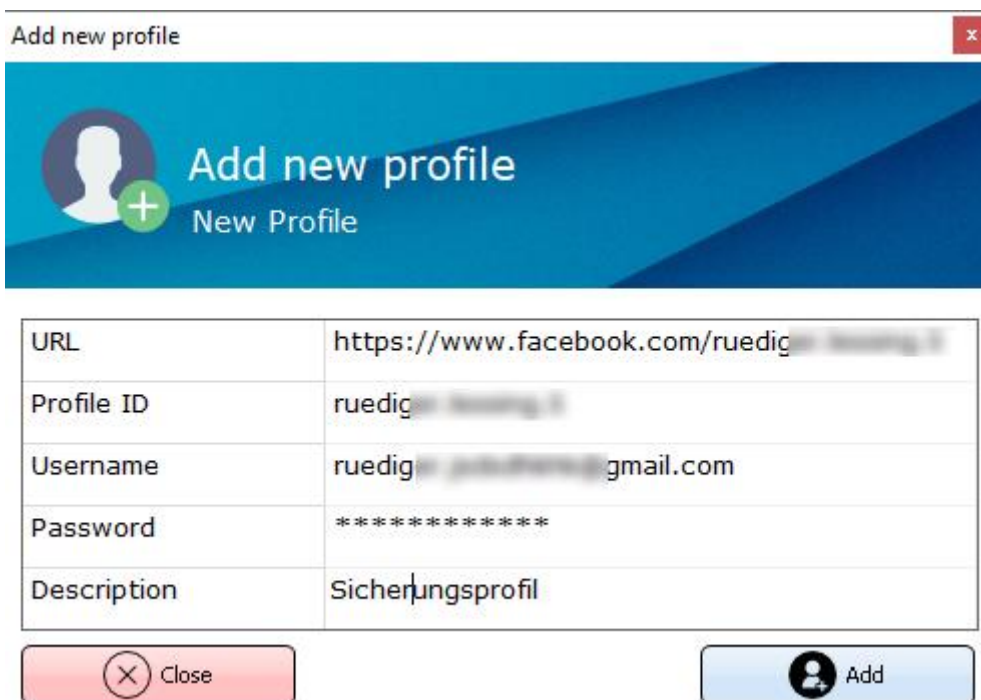
When you click the “Add” button SNH begins testing the account you entered.



If the test is successful the account appears in the Profile manager account list. Otherwise, a corresponding error message appears.

CREATE A NEW HARVEST PROFILE MANUALLY

The button  launches the formular for creating a new harvest profile.




URL	https://www.facebook.com/ruedig...
Profile ID	ruedig...
Username	ruedig...@gmail.com
Password	*****
Description	Sicherungsprofil

Die Eingaben werden durch den SNH nicht überprüft, sondern direkt in den Profilmanager eingetragen.


URL	Complete profil URL.
Profil ID	Unique profil ID (without prefixes like @)
Username	The corresponding user ID for the network (Profil ID, Email Adresse oder Phone No.) to login into the account.
Password	Password for the account.
Description	Free text field for naming the harvest profile.

After adding the account, you can proof it by using the “check all accounts” option.


DELETE A HARVEST PROFILE

The  button deletes the currently selected account from SNH.

CHECK ALL ACCOUNTS

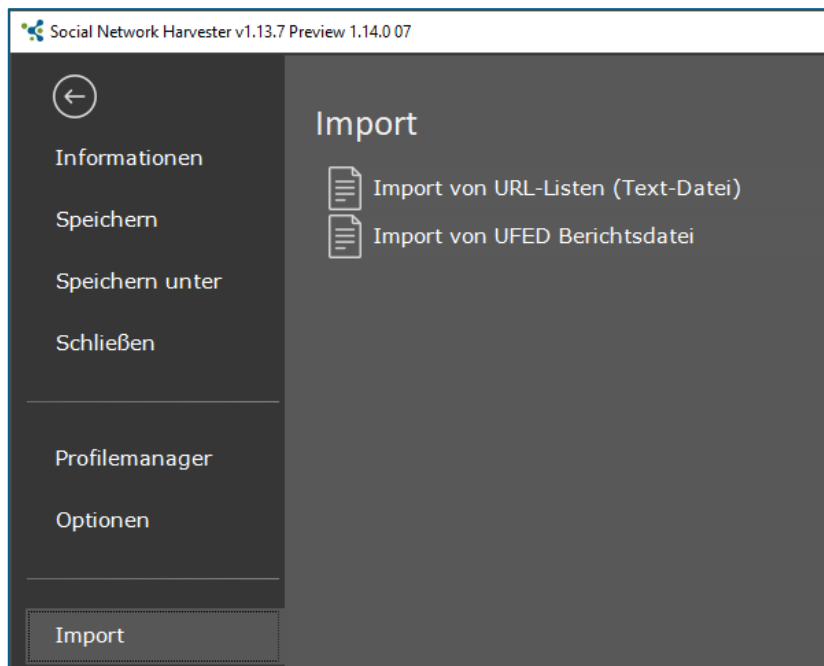
The Profile manager has a check routine for all harvest accounts. SNH logs into each account and checks the account status.  launches the check routine. The results appear in the account table but are reset after restarting.

DEFINE ROTATION PROFILES

To set a harvest account as a rotation profile or to remove this assignment, the account must be selected and the  button must be clicked. The assignment immediately appears in the account list.

MENU OPTION: IMPORT

Existing URL lists or Celebrite UFED report files can be imported here:

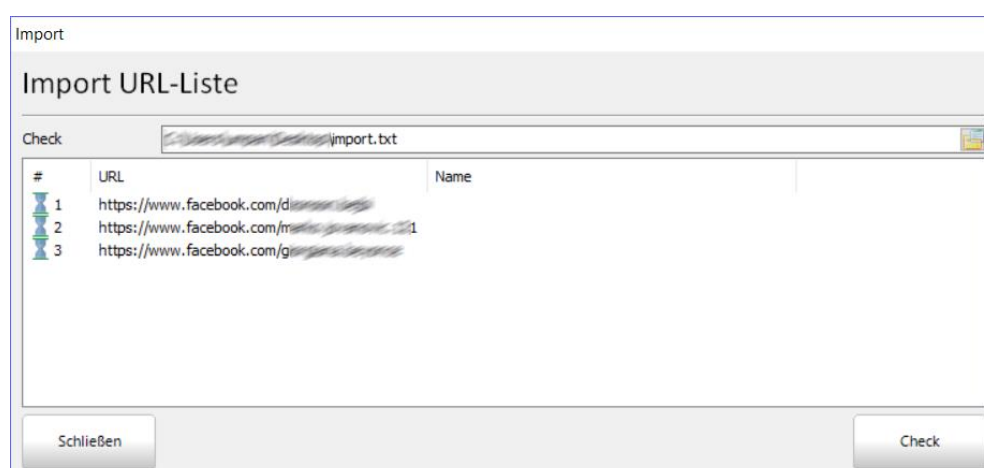


IMPORT URL LISTS

You can import existing accounts into SNH. Once they have been imported they appear in the Data explorer and can be processed immediately, just like the accounts harvested by SNH.

You can load the URL lists via the import menu. The lists must be available as text files - one URL per line.

After loading the URL list click “Check” to start the import process. SNH automatically checks whether a corresponding account exists and automatically adds an entry in the Data explorer:



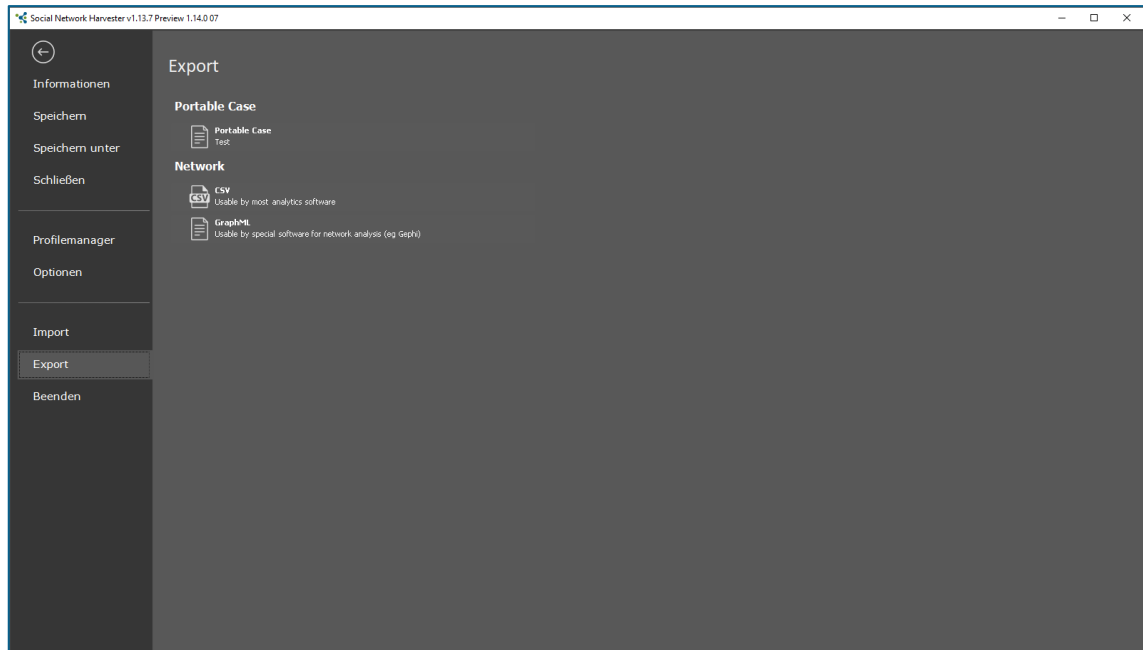
Then you can reload the lists of friends for the imported accounts.

MENU OPTION: EXPORT

To view your case offline without SNH for the preservation of evidence, you can export the current case into a “Portable Case”.

SNH also offers you the option of further processing the harvested network in a different program, such as Maltego, Gephi or Analyst Notebook.

The harvested data can be exported as a CSV or GraphML file:



Select your desired format (CSV or GraphML) and click on the button that indicates the format. The “Save as” window opens.

Select a folder and a file name and click “Save”.

MENU OPTION: MAINTENANCE

The maintenance offers options for troubleshooting the SNH

Troubleshooting Level 1:

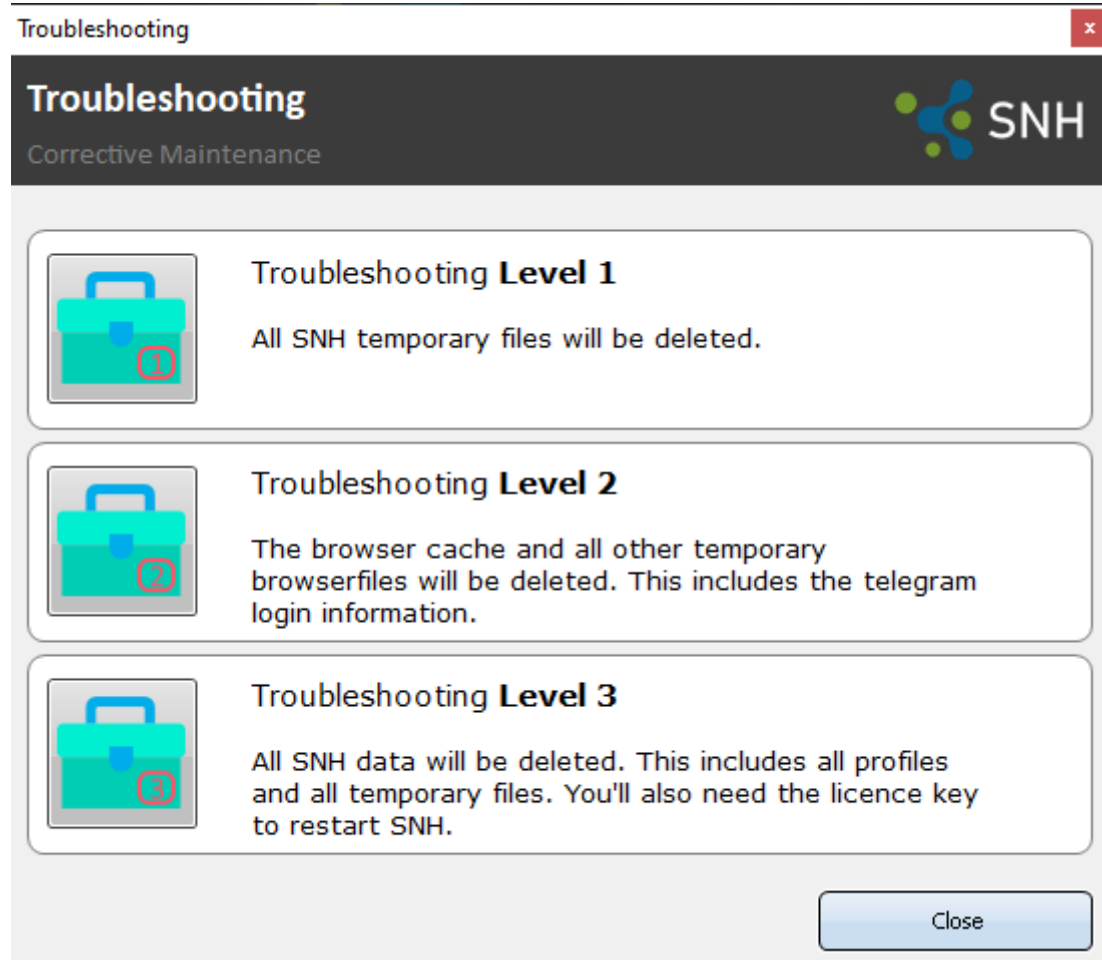
Deletion of all the SNH's temporary files. This maintenance option has primarily the function, to free unnecessary hard disc space.

Troubleshooting Level 2:

Troubleshooting Level 1 will be executed. Additionally, the browser cache will be deleted. This includes the telegram account.

Troubleshooting Level 3:

Troubleshooting Level 1 and 2 will be executed. Additionally, all SNH files (besides the program files) will be deleted. This includes all profiles and license information.



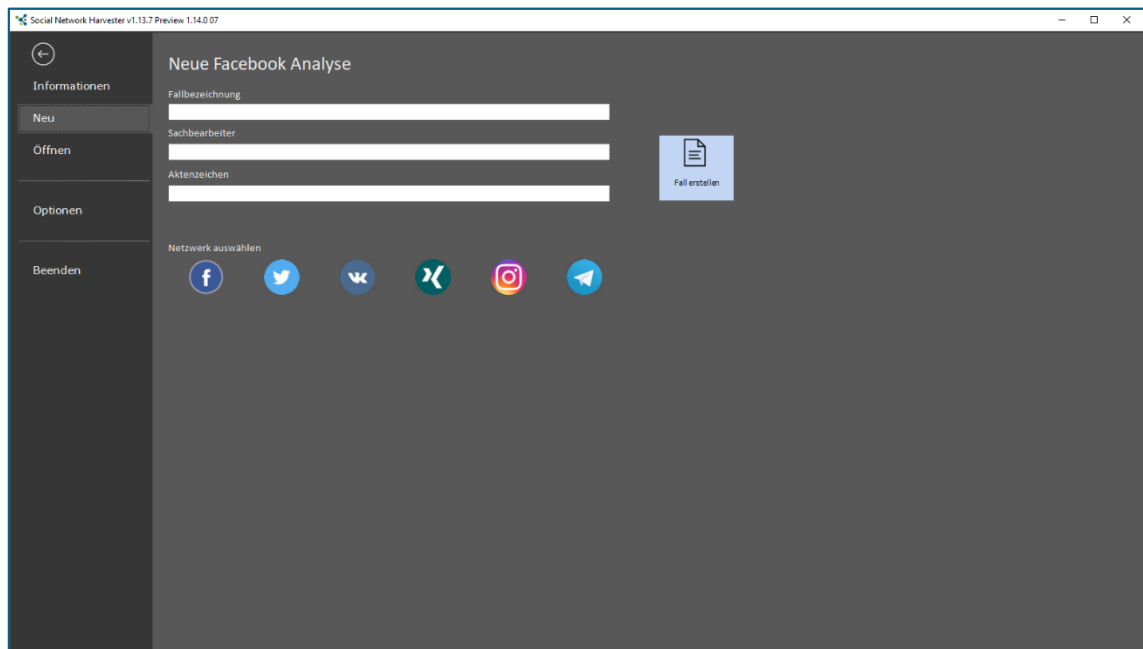
04 MANAGING PROJECTS

The following sections show examples of how to use the features with Facebook. Special features that are available for other networks are marked with the network icon.

CREATE NEW PROJECT

Click the menu option “New”.

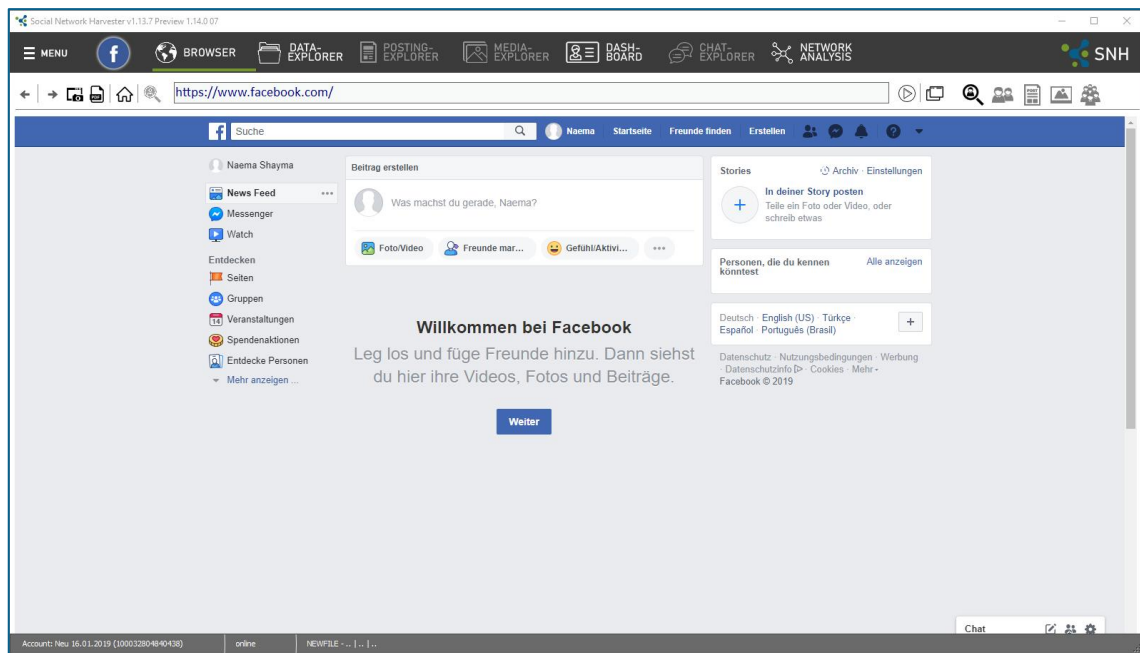
A window opens with the prompt “New Facebook Analysis”.



Here you have the option of entering the name of the case, the investigator and the case number along with the corresponding social network.

Once you have entered the information click “Create Case”.

The workspace should now look like this:



Now save the project file. Click Menu - Save as.

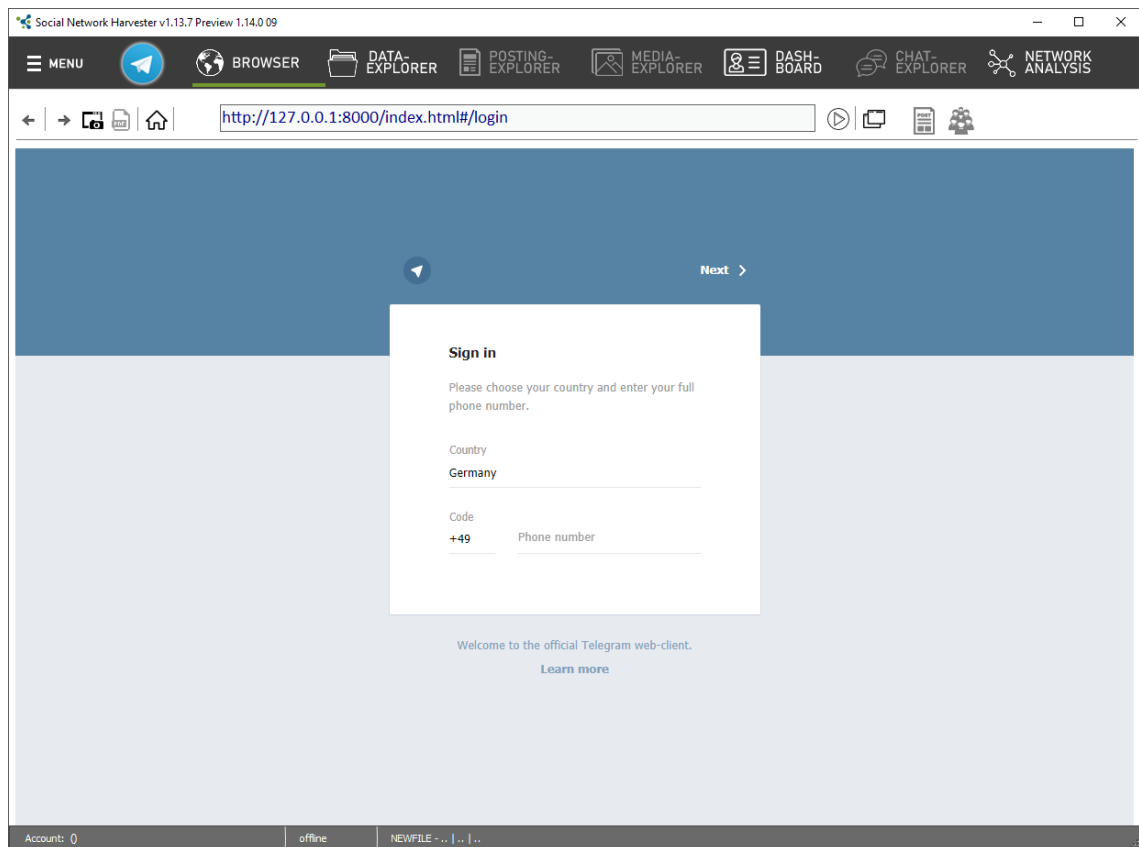
Select a folder and the name of your choice and click "Save".

Click "Close" to close the case

TELEGRAM

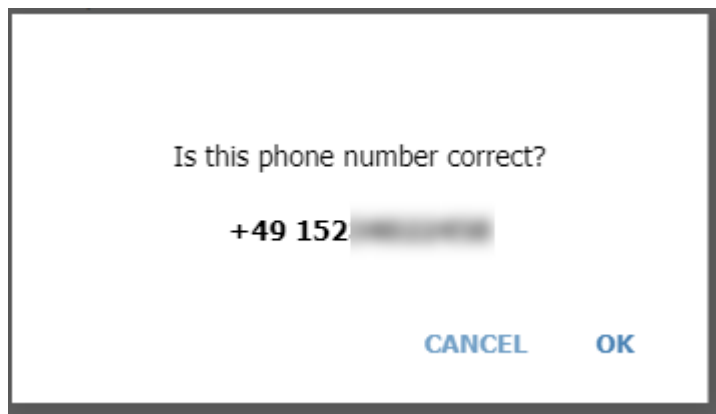
The Telegram Messenger module is available for Version 1.14.0 and later. This module does not use the Profile manager outlined in "Launching the program, workspace" in section 4. We recommend that you create a Telegram account in advance via your smartphone or tablet PC. Make a note of the access code so that you can use it in SNH.

Once you have created a new case the following workspace appears:



Enter the mobile phone number you used previously here.

After entering the number the following window appears:



Check to make sure the number you entered is correct and click OK to confirm.

A text message with the code will be sent to the number you entered. Enter this code in the field that appears.

+49 152 [REDACTED]

[Edit phone number](#)

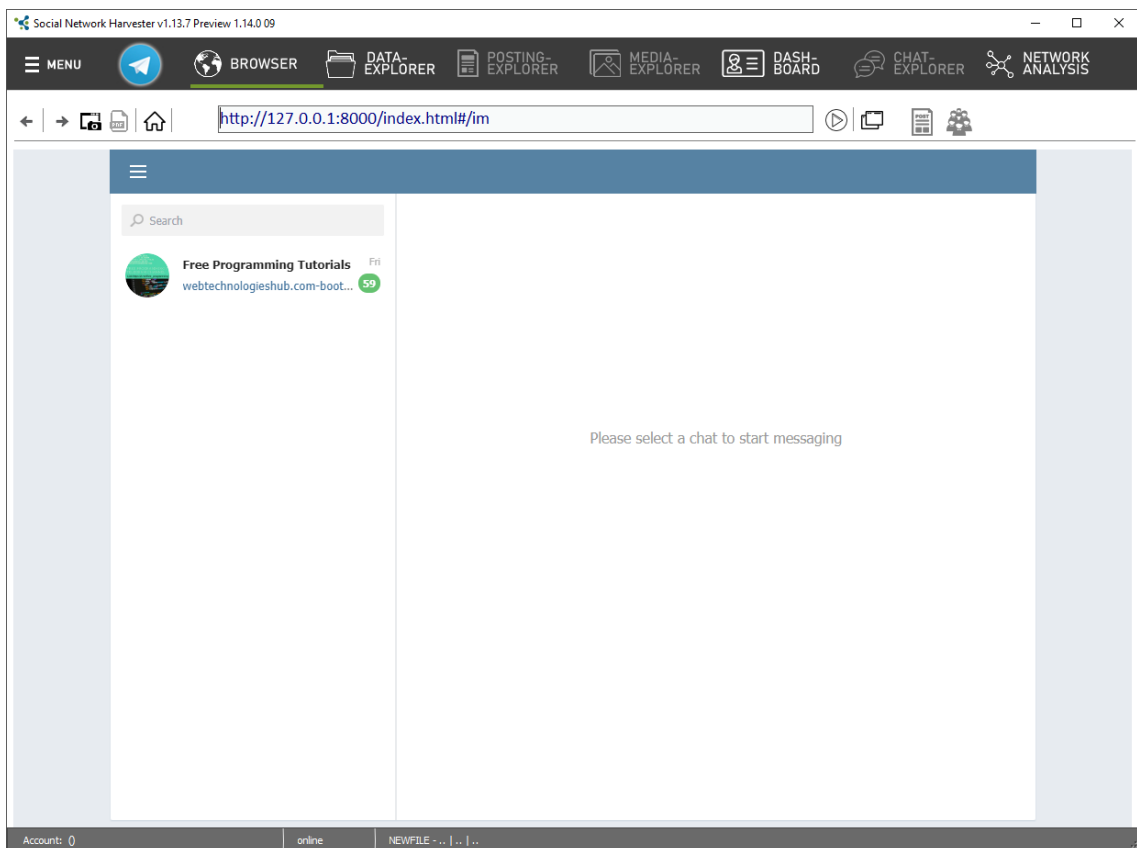
We've sent an SMS with an activation code to your phone.
Please enter the code below.

You will be able to request call in 1:42

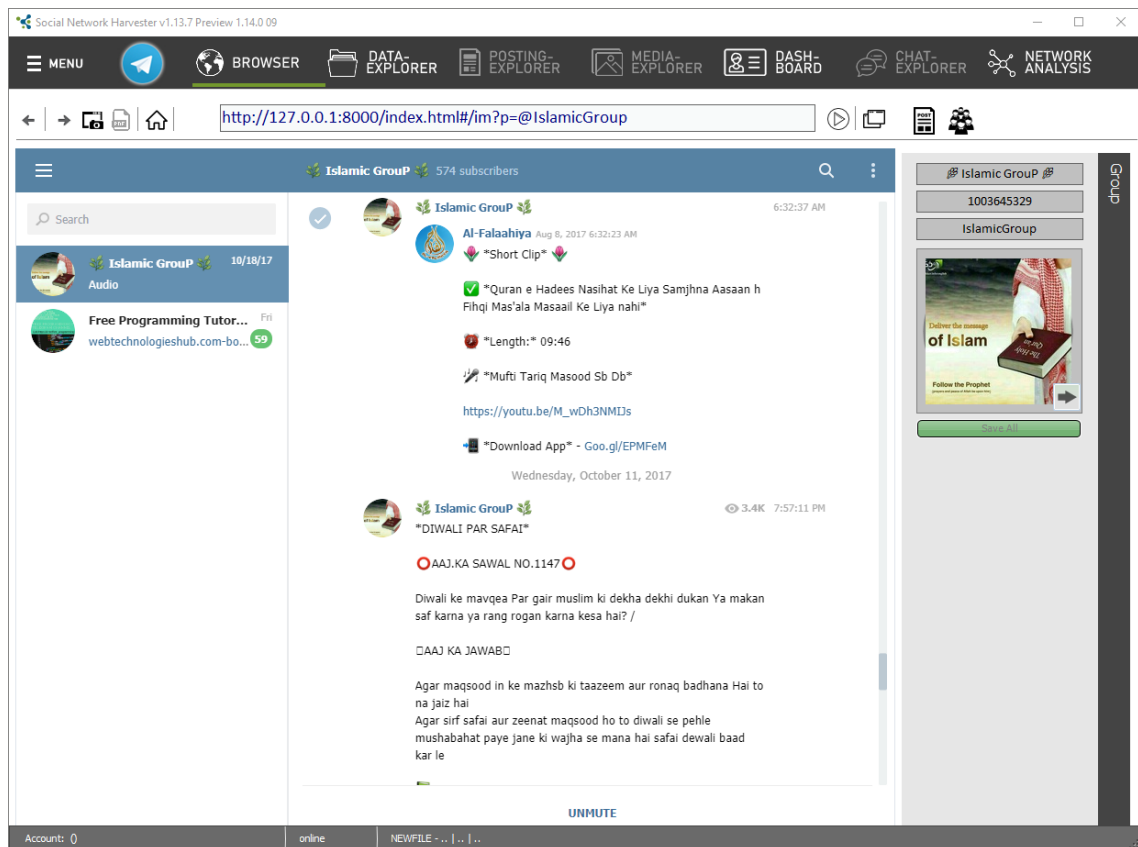
Enter your code

|

Once you have entered the code the screen automatically switches to the Telegram module.



Now select the respective group, their posts or the members you wish to harvest.



See the section on “Harvesting data” for information on how to do this.

**Be sure to save the project
at regular intervals!**

OPEN EXISTING PROJECT

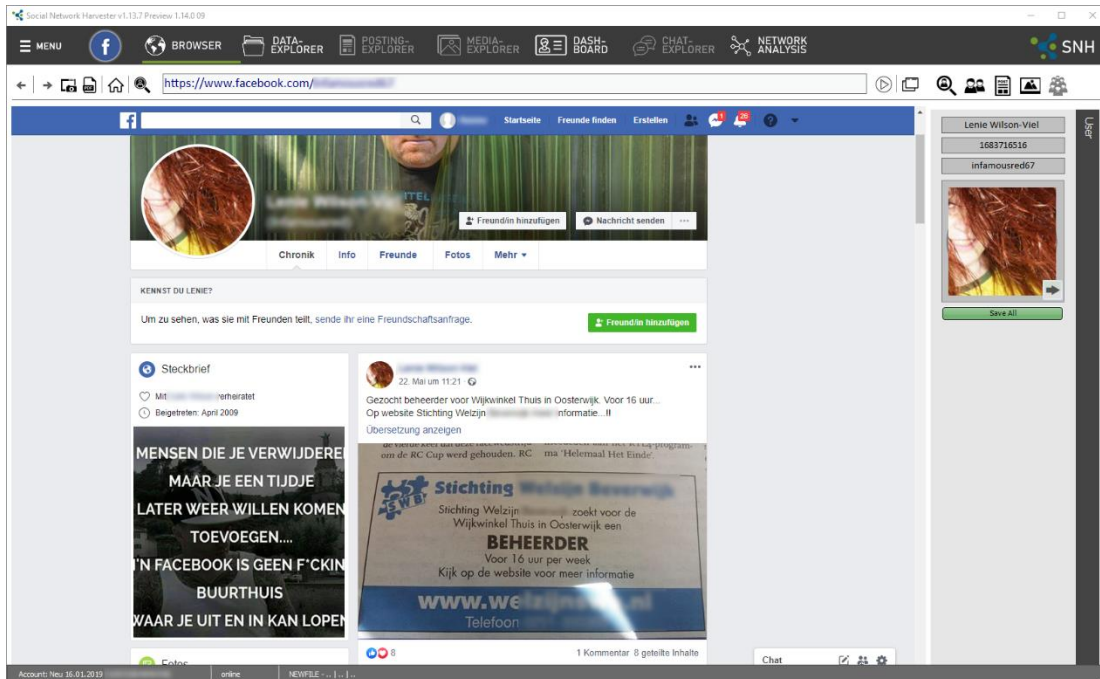
To open a saved project click on the menu option “Open”.

A selection window opens. Choose the respective project file and click Open.

05 GENERAL OPERATING INSTRUCTIONS/BROWSER VIEW

BROWSER VIEW

When you access a profile the browser view appears as follows:



The view is divided into a browser bar at the top, an area centered around the displayed user on the right and the main area, which shows the corresponding social network page.

The top bar is further divided into the left side next to the URL address bar and an area on the right.

Pressing "CTRL+F" allows you to search through the currently displayed browser content.

BROWSER BAR ON THE LEFT

The following functions are located on the left:




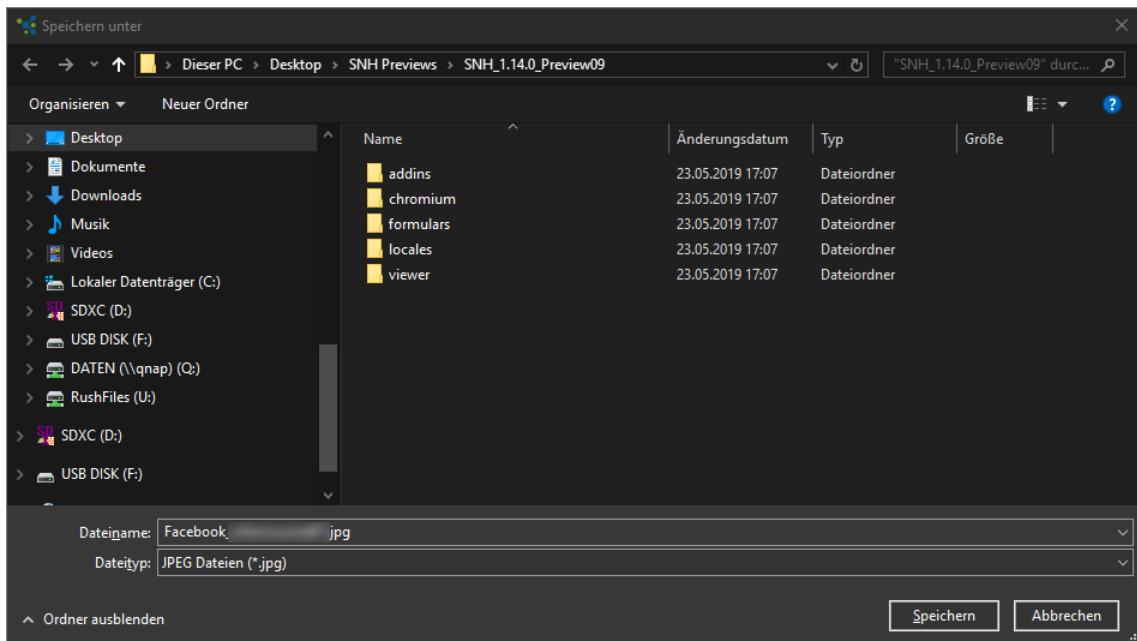
Browser navigation - Access previous or next page.



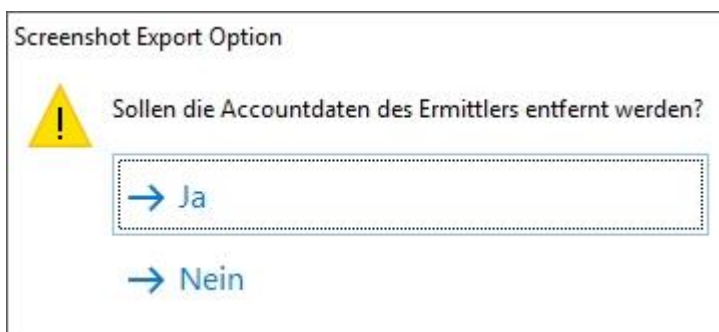
Create screenshot and PDF

SAVE SCREENSHOT

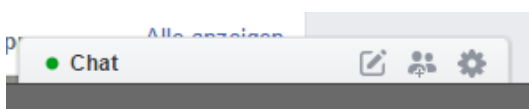
Click the  icon to open the “Save as” window:



Define here where you wish to save the screenshot as a JPG file. SNH automatically creates a file name based on the network and user name. Then click save. An option menu opens:



Here you can define whether or not the investigator's account data should be deleted from the screenshot file. The small chat window in the bottom area is also hidden.

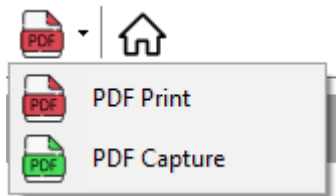


EXPORT AS PDF

The currently Website profile can be exported as a PDF file as follows:

Open the desired profile in the browser and open the profile contents you wish to harvest.

Now, you can choose between the browser integrated PDF print function or the SNH PDF capture function. The selection can be done by using the dropdown menu.



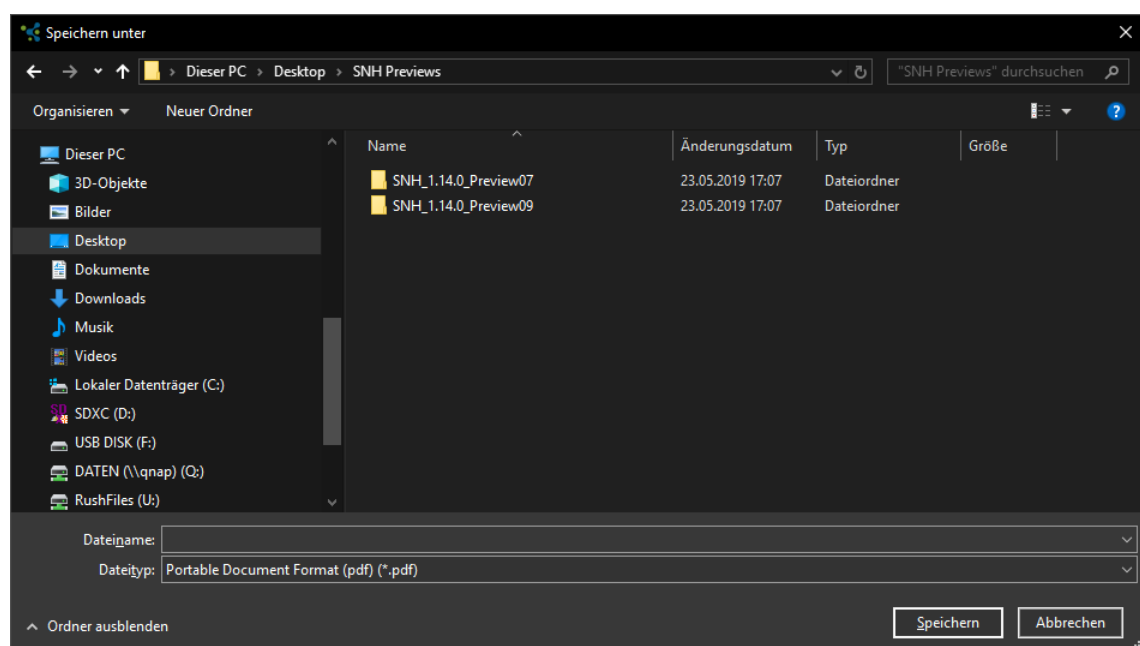
Beside scrolling, both functions doesn't trigger loading events.

PDF print function

The PDF print function is using the Chromium integrated print module to export the shown website to PDF. Therefore, you can choose to scroll the entire page and remove account information.


Click  .

Select the location where you wish to save the file and the file name for the file you wish to generate.



Now choose whether SNH should scroll the webpage.

PDF Export Option

 Soll die Webseite vor der Sicherung gescrollt werden?


→ Ja

→ Nein

If you select this option, SNH will scroll down the displayed page until no other content can be reloaded. This feature may not work reliably with very slow Internet connections.


Then you have the option of hiding the personal data associated with the investigating account before saving.

PDF Export Option

 Sollen die Accountdaten des Ermittlers entfernt werden?

→ Ja

→ Nein

 : The top navigation bar and the right chat bar are hidden.

 : The top navigation bar is hidden.


 : The top navigation bar is hidden.

 : The top navigation bar and the left profile bar are hidden.

 : The top navigation bar is hidden.

After saving, any bars that were previously hidden reappear.

Export beendet!

 Die Datei wurde exportiert. Öffnen?

→ Ja, öffne die Datei mit dem Standardprogramm.

→ Nein. Zurück zu SNH..

Then you will receive a message indicating that the export was successful. Now you can decide whether or not the PDF file should be opened.

PDF capture function

The PDF capture function doesn't use the Chromium integrated print module. SNH scrolls the website and creates several screenshots which are merged together,

HOME BUTTON



Accesses the homepage of the respective social network.

BROWSER BAR ON THE RIGHT

The following functions are located on the right:



Accesses the URL currently in the browser bar.




Opens the current page in an external default browser.



Icons for data harvesting, these will be covered in detail in the following sections.

INFORMATION ON THE CURRENTLY DISPLAYED PROFILE

Once the profile has been selected and displayed, the user information is shown on the top right-hand side. This includes:

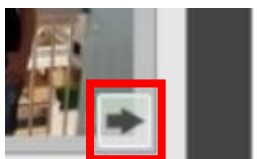
<div> <div>Leni</div> <div>168</div> <div>ir</div> <div>  <div></div> </div> <div>Save All</div> </div> <div>User</div>	<div>Screen name</div> <hr/> <div>User ID</div> <hr/> <div>Vanity ID</div>
--	--

1. The screen name (name as shown on the profile page. The user can change this name.)
2. The UID (numerical code - unique, as it is only assigned once. It is not shown on the webpage.)
3. The vanity ID (unique name listed in the URL following www.facebook.com/. The user can change this name.)
4. The user's current profile picture.

Right-clicking on this area copies all of this information to the clipboard so that it can be pasted anywhere.

```
Steff xxxxx steff.xxxxxxx 100027xxxxxxxxxx
https://www.facebook.com/steffxxxxxxx
```

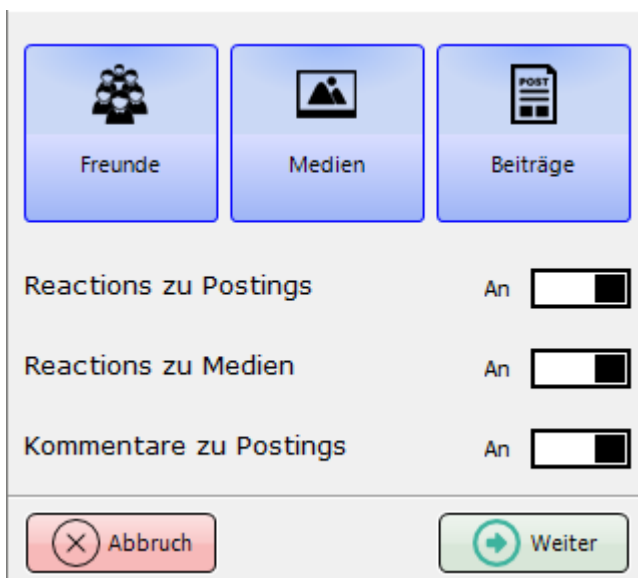
You can add the current profile to the Data explorer as a single data record by clicking on the arrow on the right below the displayed profile picture. No other data is collected here.



QUICKSAVE BUTTON



“Quicksave” allows you to define the content you wish to save.



Data harvesting via the “Quicksave” button retrieves:

- All public friends of the account. If the friend list is not public, then the Likes received are not harvested automatically. If you wish to do this, you need to take the necessary steps later on in the Data explorer (see Data harvesting) or in the browser (see “Save reactions”).
- All public media (photos and videos) of the account. It is not possible to select albums.
- All public posts of the account (comments or reactions may be selected)
- Reactions to and comments on posts, reactions to media

QUICK-PDF BUTTON



The Quick-PDF function provides similar functionality like the “Export as PDF” function. The timeline of an account will be saved as a PDF file, but the acquiring of data for SNH purposes doesn’t occur. Information about the investigator’s account will be removed.

As distinct from the “Export as PDF” function, SNH circumvent security techniques of the networks. Currently, you can’t use the “Export as PDF” function to save timelines vom twitter, Facebook (new), and Instagram. Therefore, you have to use the “Quick PDF” function.

06 HARVESTING DATA

The browser view features an integrated browser. It automatically opens the corresponding homepage of the respective social network. In this case, the homepage is www.facebook.com.

DATA

You must be logged in with an account in order to harvest data on a profile.


Data harvesting is one of the most important and basic features of SNH.

This includes the respective user's lists of friends on the one hand and the timeline and gallery of the selected user on the other hand.

Note: As outlined in the introduction, it is absolutely mandatory to create a new account for each social network. It should only be used for running SNH. Any consequences resulting from a failure to observe these instructions can result in limitations on the data collected/analyzed.

OPEN THE PROFILE YOU WISH TO HARVEST

VARIANT A: THE PROFILE(S) IS/ARE KNOWN

Copy the URLs of the known profiles into SNH's URL line and confirm with 

.


The corresponding profile opens.

VARIANT B: THE PROFILE(S) IS/ARE UNKNOWN

Enter the name in the search line on the Facebook page to display the matching profile. You will know that SNH is ready to harvest data if you see the details of the selected profile appear on the right side of the browser.


DATA HARVESTING MENU

The data harvesting menu is located on the top right-hand side.

 : The Facebook module offers the following data harvesting options:



- Search user
- Save friends
- Save timeline posts
- Save photo albums
- Save group members
- Save reactions

 : The Twitter module offers the following data harvesting options:




- Save friends
- Save timeline posts

 : The VK module offers the following data harvesting options:




- Save friends
- Save timeline posts
- Save photo albums
- Save group members

Please note that the harvesting features for VK.com will only work properly if the language in the VK.com settings is set to **English**.

 : The Xing module offers the following data harvesting options:




- Save friends

 : The Instagram module offers the following data harvesting options:




- Save friends
- Save timeline posts

 : The Telegram module offers the following data harvesting options:



- Save friends
- Save timeline posts

 : The Odnoklassniki module offers the following data harvesting options:



- Save friends
- Save timeline posts
- Save photo albums

Please note that the harvesting features for VK.com will only work properly if the language in the VK.com settings is set to **English**.



: The Youtube module offers the following data harvesting options:



- Save Youtube video (including comments and metadata)

SAVE FRIENDS

Click the marked icon to launch the data harvesting process for the friend list:



An option field opens:

Optionen

Optionen

Einrichten der Datenerfassung

Netzwerktaufe

- ☒ Speichere Freunde (1. Ebene)
- ☐ Speichere Freundesfreunde

Connection type

- ☒ Load Friends
- ☐ Load friends and follower

Nicht öffentliche Freundesliste

- ☒ Account überspringen
- ☐ Reaktionen als Freundesliste nutzen

Aktualisierung

- ☒ Überprüfe alle Freunde
- ☐ Überprüfe neue/unbekannten Freunde

Speichere Profilbilder

- ☐ Ja
- ☒ Nein

Abbrechen OK

Select the corresponding options for the data you wish to store here. See below for an explanation of the individual configuration options.

Network depth

Save friends (first level): The friend list for the displayed profile is collected and saved here.

Save friends of friends: The friend list for the displayed profile and friends of these harvested friends are collected and saved here, provided the privacy settings in the profile allow for this.

Save profile images

Yes: This saves the corresponding profile images.

No: This does not save the corresponding profile images.

Non-public friend list

Skip account: Skips profiles whose privacy settings do not allow also displaying data in other lists of friends.

Use reactions as friend list: This saves reactions (Likes, etc.) provided on the timeline of a user's page in the sense of a friend list, because it is very likely that the respondents' profiles belong to friends.

The number of postings inside a timeline, used for acquiring Reactions can be set in the config formula (Section "System", Area "Scraping"). The standard value is 20.

Note:

This step could "endanger" an account. The network operator could block the account you are currently using.

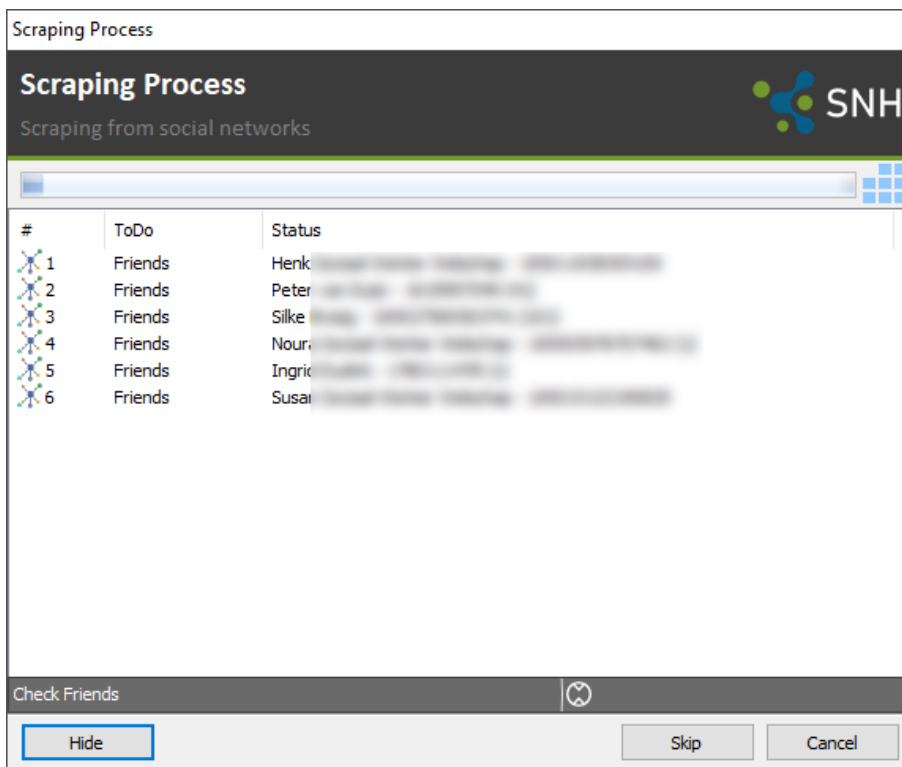
Update

Check all friends: All accounts shown in the friend list are downloaded.

Check new/unknown friends: Only the newly added accounts are downloaded here. This acts as an update function for an existing case.

Click OK after making your selection and SNH will begin downloading the profiles.

The following window appears:



In the scraping window shown above the user that is currently being processed is shown along with the number of harvested connections following it in parentheses.

Click the “Hide” button to hide this window.



An icon appears in the information area (System Tray, bottom right). The window can be restored via this icon. You can click “Skip” to skip the currently displayed user and harvesting will continue with the next user. Or click “Cancel” to completely cancel the harvesting job. The previously collected data will remain unaffected.

When you end the harvesting process the saved profiles are listed in the SNH workspace under the menu option Data explorer. See the section on “Displaying data” for more on this.

This harvesting process may take a considerable amount of time, depending on the number of friends and friends of friends.

Note!

Do not restart your computer during this process (check your settings for automatic updates), because the results that have already been harvested are not saved automatically. The user must save the results once the harvesting process is finished.

SAVE TIMELINE POSTS



A selection field opens

Select the corresponding options for the data you wish to store here. See below for an explanation of the individual configuration options.

Update

Save entire timeline: This saves the entire timeline.

Save new posts: Only the new posts added since the last session are saved here.

Images

Save images: Only the images in the posts are saved.

Discard images: Only the posts are saved, without images.

Range (optional)

You can enter a specific range of dates here. Only the posts made during this period are collected.

Reactions

SNH generally saves the *number* of reactions to a published post (Likes, etc.) in the supported networks. *Who* reacted is not visible. If the investigation also requires information on *who* reacted to be saved (and, for Facebook, which reaction) this feature can be enabled via the option "Save all reactions".



Note

Facebook monitors which reactions are shown. Excessive use of this feature can result in the investigator's account being blocked or limitations being imposed on the account's functionality. Therefore, use this feature with care. The default setting only saves reactions to the 100 most recently published posts for this account. If you need to harvest more or less than 100 posts, you can adjust this number in the settings under "Max postings to process". However, it is not possible to select more than 300 posts.

Comments

Save all comments: SNH saves all of the contents of comments and links them to the post.

Discard all comments: Comments are not saved.

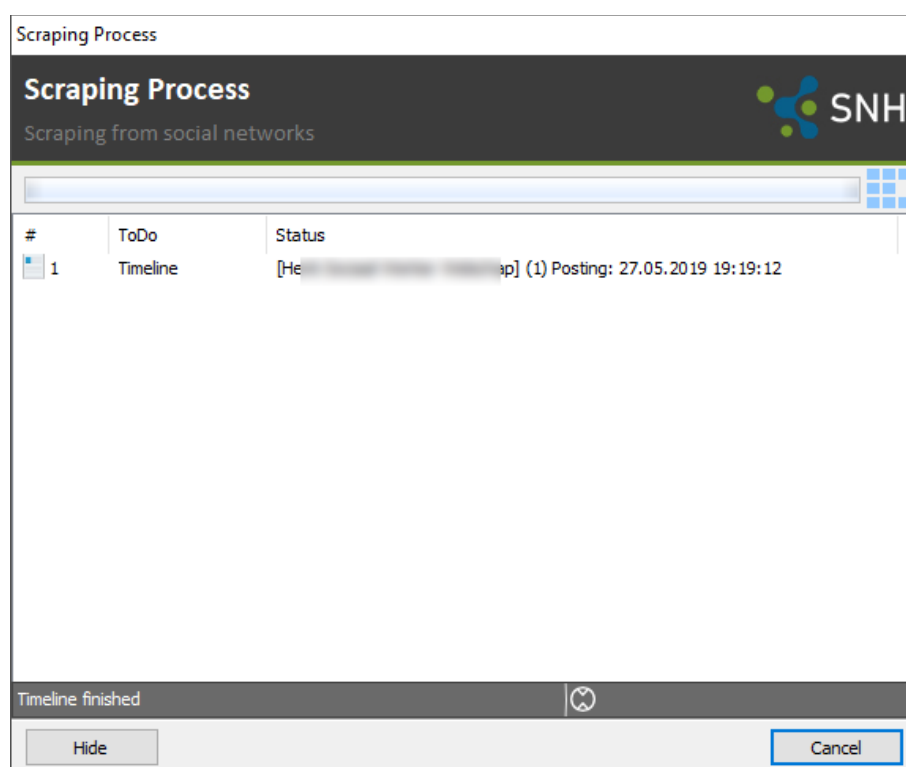


Note

Facebook monitors which comments are shown. Excessive use of this feature can result in the investigator's account being blocked or limitations being imposed on the account's functionality. Therefore, use this feature with care. The default setting only saves the comments on the 100 most recently published posts for this account. If you need to harvest more or less than 100 posts, you can adjust this number in the settings under "[Max postings to process](#)". The Chromium Browser used by SNH imposes further limits on this feature. "Expanding" comments requires a great deal of memory. This is why the number of posts for which comments can be harvested is directly dependent on the computer system's performance capability.

Click OK to confirm or click Cancel.

A window opens showing the scraping progress.



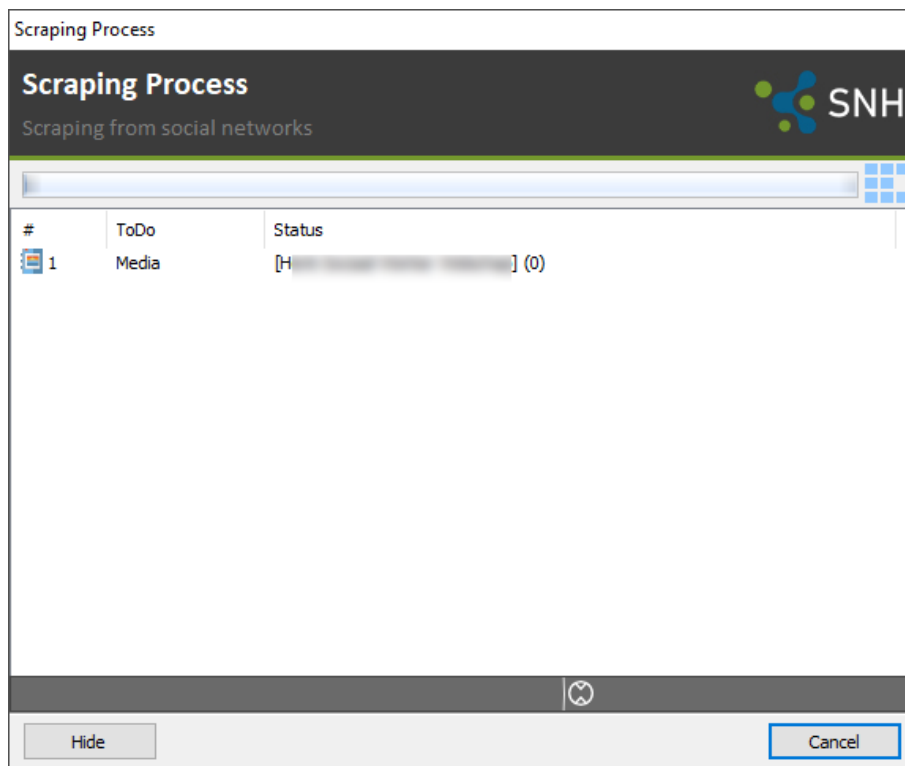
You will find the saved posts in the Posting explorer once the scraping process is complete. See the section on the "Posting explorer" for more on this.

SAVE PHOTO ALBUMS

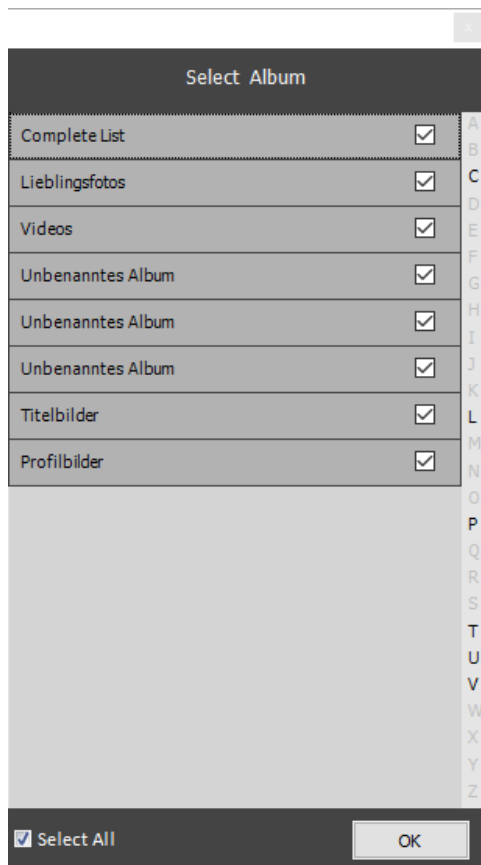
Click the marked icon to save a user's public photo albums.



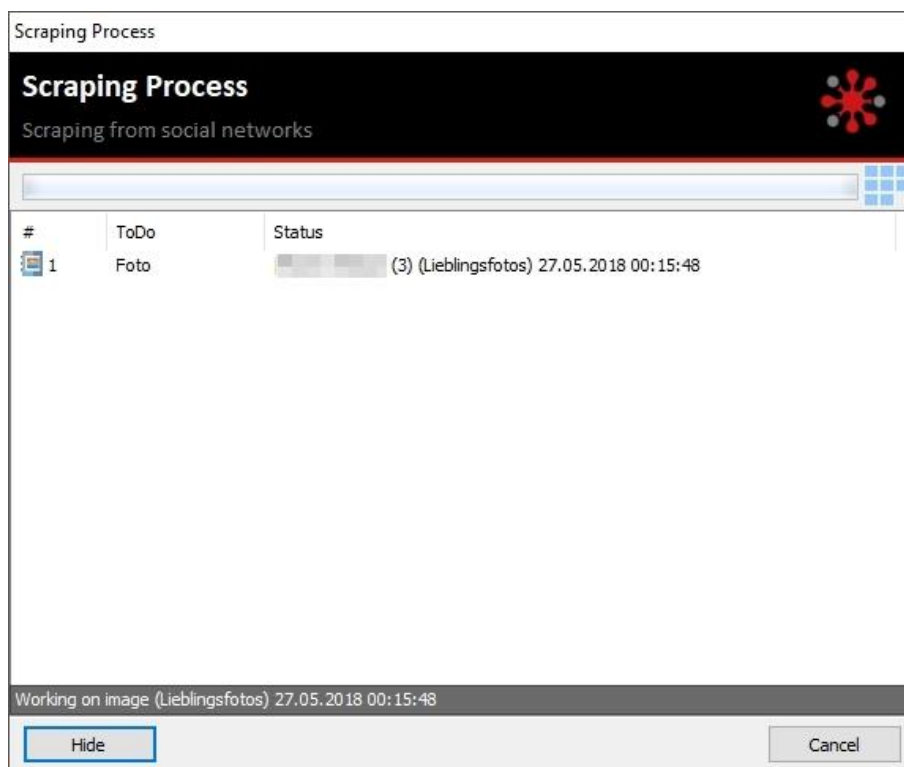
A scraping window opens.



In the first step the program checks which photo albums are available for download. These are then displayed for selection in the next window that appears.



After choosing and confirming by clicking OK the actual scraping process begins.



A special feature should be considered when saving Facebook photos. Depending on the privacy settings, photos may be included in the respective albums and in the complete list of photos. It is also possible for photos to be

featured in the complete list ([https://www.facebook.com/\[FBID\]/photos_all](https://www.facebook.com/[FBID]/photos_all)), but not in the albums ([https://www.facebook.com/\[FBID\]/photos_albums](https://www.facebook.com/[FBID]/photos_albums)).

This is why SNH offers the option of saving the entire list of photos in addition to the public albums. The photos are then sorted into the corresponding albums. Photos are not saved twice.

Virtual Facebook albums (e.g. favorite photos) that merely comprise collections from other existing albums are treated like regular albums. This means that photos from these albums may also be present again in other albums.

You will find the saved photos in the Media explorer once the saving process is complete. See the section on the “Media explorer” for more on this.

SAVE GROUP MEMBERS

The menu item “Save group members” can only be used when you access the group page. Click on the marked icon to download the group members.



An “Options” menu opens. Make your selections here as outlined above and start the process with “OK”.

Please note that the group must either be public or you must be a member of the corresponding group!

Optionen

Optionen

Einrichten der Datenerfassung

Netzwerktiefe

☒ Speichere Freunde (1. Ebene)

☐ Speichere Freundesfreunde

Connection type

☒ Load Friends

☐ Load friends and follower

Aktualisierung

☒ Überprüfe alle Freunde

☐ Überprüfe neue/unbekannten Freunde

Speichere Profilbilder

☐ Ja

☒ Nein

Nicht öffentliche Freundesliste

☒ Account überspringen

☐ Reaktionen als Freundeliste nutzen

Abbrechen OK

Then a scraping window opens, as is the case with the other data harvests.

You will find the saved data in the Data explorer.

SAVE YOUTUBE VIDEO

You need to create a Youtube case in order to use this function. If a youtube video is shown in the browser, the button will be enabled.

Following content can be saved;

- Video in the highest possible resolution
- Video thumbnail
- Video description
- Amount of likes
- Comments

The saved Youtube Video can be watched by using the posting explorer. There are also saved comments. The video thumbnail is placed inside the media explorer.

SAVE REACTIONS

To save the reactions that a user received, the user's posts must also be saved (SNH v.1.12.2 and later).

SAVE PROFILE INFORMATION

Until now it was only possible to add profiles to the Data explorer (without harvesting any further data) if the profile was displayed in the browser.

Beginning with this version it is also possible to transfer profiles without accessing them. To do this you must right-click on a link to the profile in the browser window. A small button briefly appears. Click the button to open the link in the background. If SNH recognizes a profile, it is added to the Data explorer.



Several seconds may elapse between clicking the button and the information being entered into the Data explorer due to the profile check.

SEARCH USER

If, instead of a unique ID, you only have the user's name (screenname), click on the marked icon to search for one or more names.



A window opens. Enter the name you are searching for along with any other desired search parameters and click OK to confirm. Click on the "Multiple User" tab to search for multiple people simultaneously.

Search

Search

Search user by name

Single User

Multiple User

Name:

Geschlecht:

Alle

Aktueller Wohnort:

Aktueller Arbeitspla

Aktuelle Schule:

Sprache:

Geburtsjahr:

bis

Cancel

OK

Search

Search

Search user by name

Single User

Multiple User

Namensliste:

Please insert multiple Names
One per Row

1

Magda Lena

2

Ingberth Sawanja

3

more

4

more

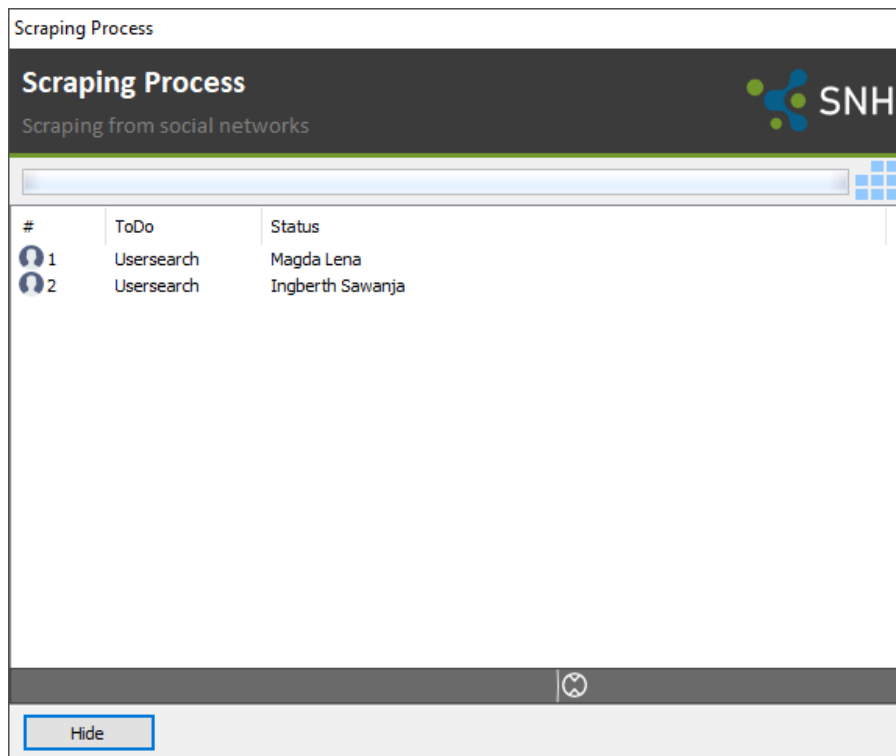
5

more

Cancel

OK

A scraping window opens. Now all of the profiles with the name you have searched are saved.



Once the harvesting process is completed a selection dialog appears.



Here you can either save the results in the Data explorer and display them or you can load the contact list of the accounts that were already harvested to use SNH to determine which of the harvested accounts are most likely the accounts you are searching for. The option of saving friends of friends is disabled here. SNH only automatically loads first-level friends.

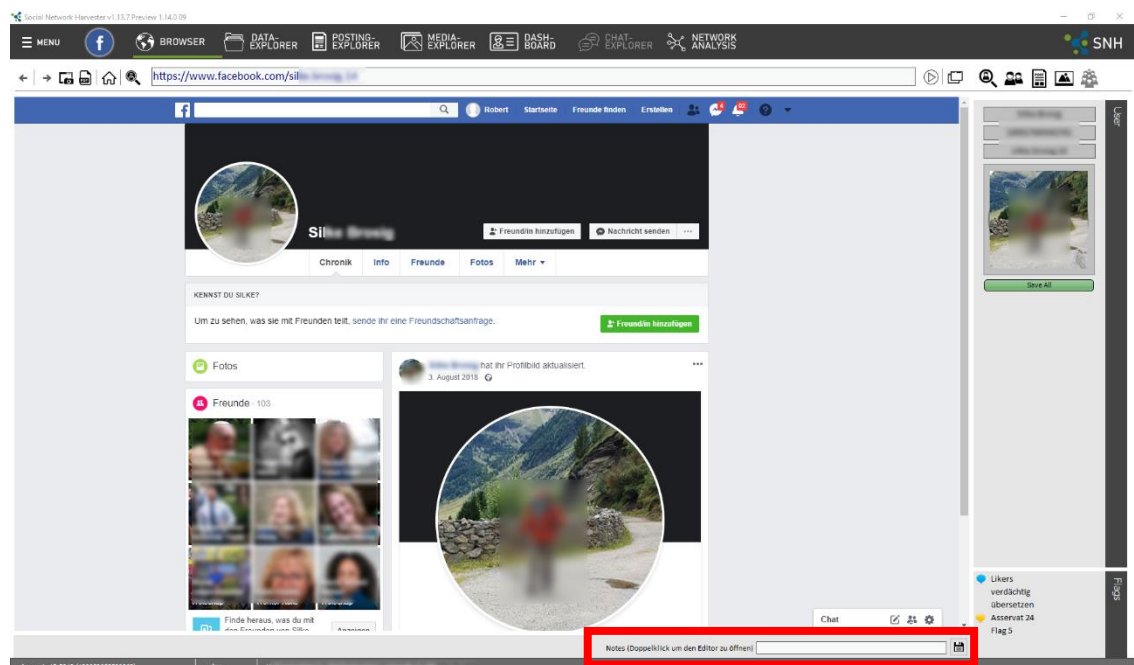
Please note that the availability and scope of the user search depends on the respective social network.

07 COMMENTS AND FLAGS

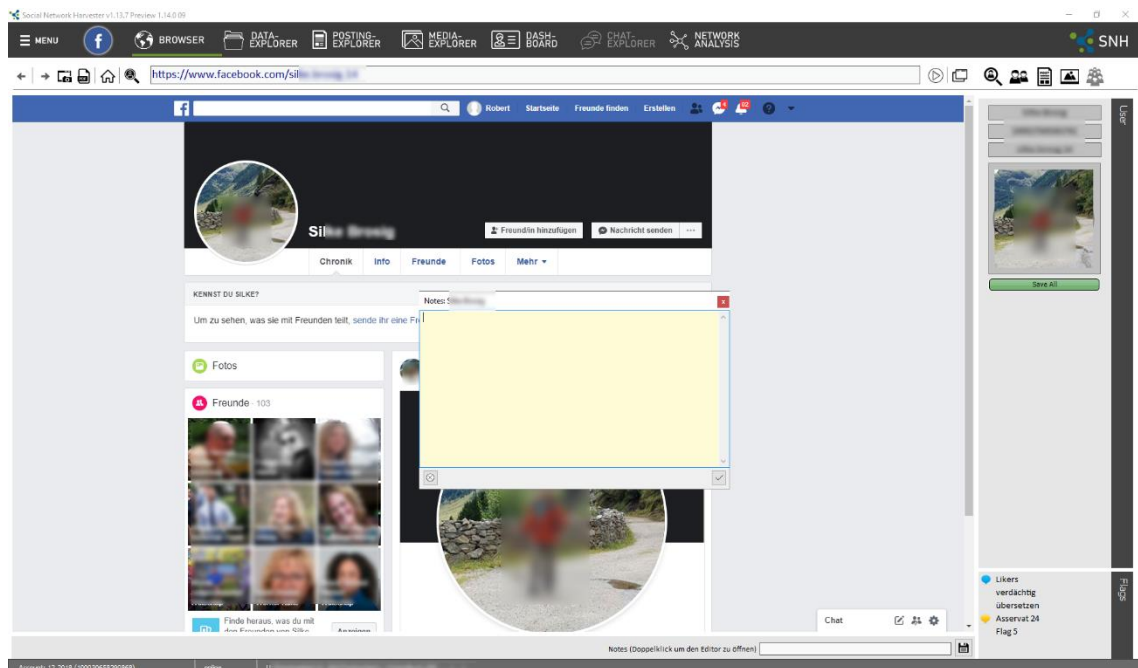
You can add comments and flags to previously saved data records (uniform marking). To do this select the corresponding profile in the Data explorer. Click "Open profile". Switch to the browser view. Now the corresponding profile should be visible.

COMMENTS

You can add comments as follows: A field with a text box is located below the browser window. Enter your comment here. The text is written to the database by clicking the button located on the right:



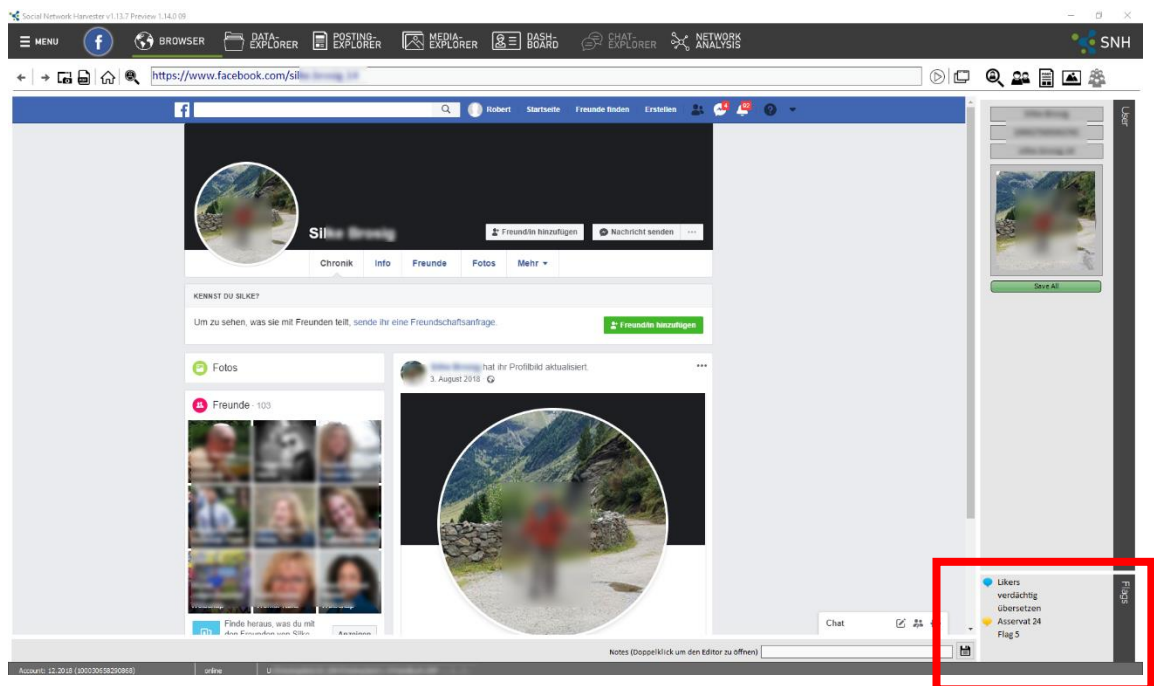
For longer comments, double-click on the text box. A larger text box opens:



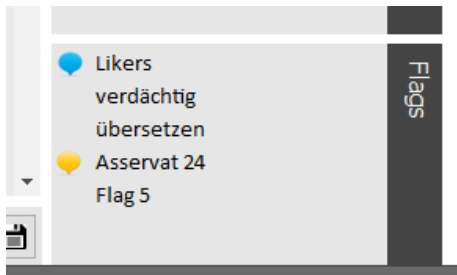
Then you will find the comments you entered in the Data explorer view under the “Notes” column.

FLAGS

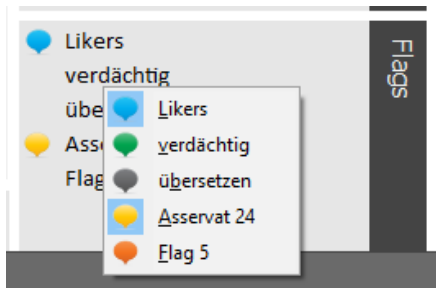
Five different flags are available:



Double-clicking on the preset Text Flag 1 - Flag 5 lets you enter the required text, e.g. “Important”, “Unimportant”, “Translation required”, etc. This is then used for the entire project.

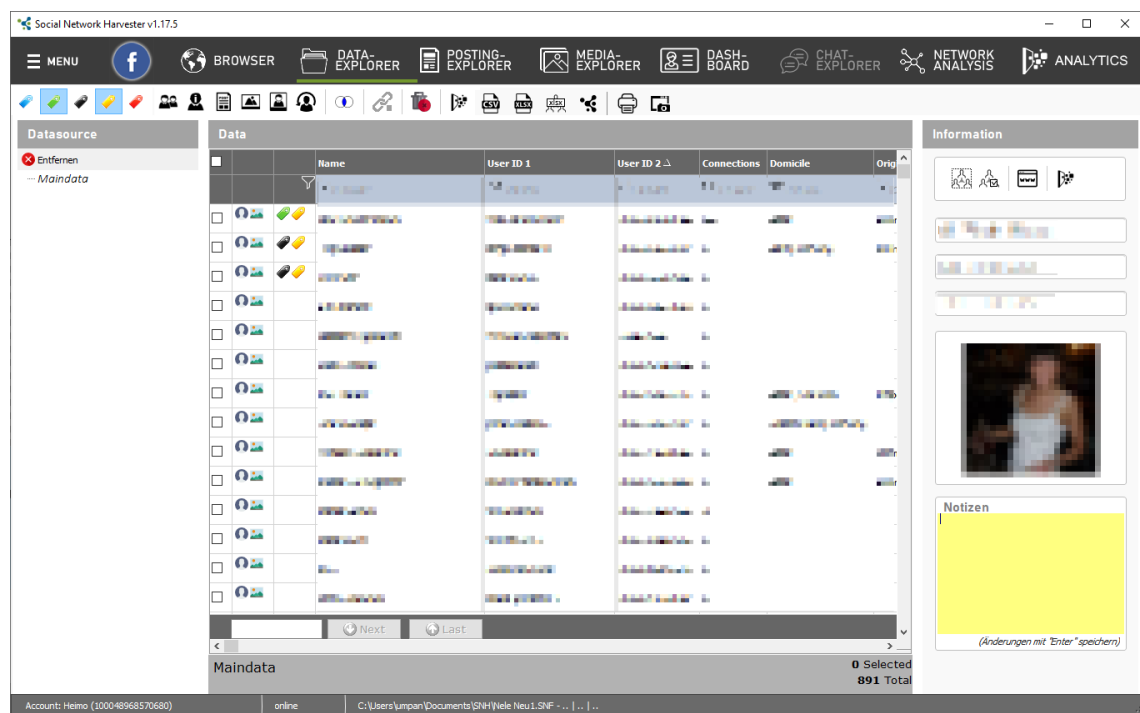


Right-click anywhere in the “Flags” field to flag an item. A flag selection menu appears.



You can select or deselect the corresponding flags here. You can set multiple flags simultaneously. Flags can also be set in the Data explorer.

08 DATA EXPLORER



You can see the type of database on the top left. In this example we see the primary database (maindata). Section 7 “Visualizing data” covers this area in more detail.

Click the respective column header in the data field to arrange the data in ascending or descending order.

The columns are defined as follows:

- (System reference number)
- Type (type of account and availability of a profile image)
- Flags
- Screen name (displays the name of the user as it appears on the profile page at the time of harvesting)
- User name (is displayed at the end of the vanity URL, www.facebook.com/username. Does not necessarily need to be assigned).
- User ID2 (unique, single-instance numeric User ID)
- Connections (number of friendships)
- City
- Hometown
- URL

A search screen is located on the left below the data fields. The results show hits in all of the table fields.

The total number of nodes and the number of visible or filtered nodes is shown on the bottom right.

Right-clicking on a data record opens a context menu.

There is a bar above the data table. Its functions are explained in the following:



These functions affect all of the marked data records (checkbox).

RECORD SELECTION












The functions of the data explorer are referring to all checked data records. To check a record, you have to click the first columns checkbox.



If you would like to check multiple records at once, you have to select them by holding the CTRL or the SHIFT key. By using the context menu, you can check these records, or uncheck them.

FILTERING OF RECORDS

You can use the filter function to filter the records of the table.

Name	User ID 1	User ID 2 ^Δ	Connections
 Contains	 Contains	 Contains	 Contains
			
			

The following filters can be set:

- Starts with
textfilter
- Ends with
textfilter
- Contains

- textfilter
- Not Contains
textfilter
- Equal
numberfilter / textfilter
- Larger than
numberfilter
- Smaller than
numberfilter

After the input of the filtertext, the filter process starts by pressing the Return key.

SET FLAGS

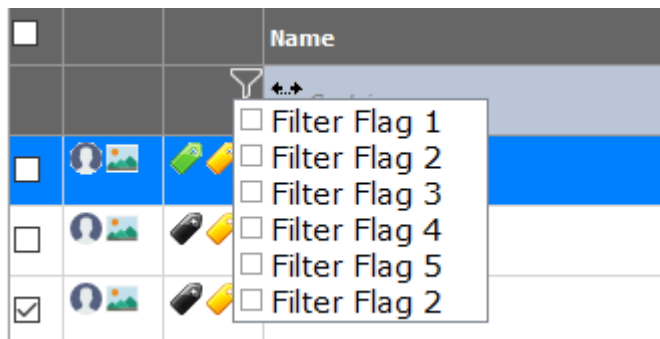


We explain how you can set flags for individual accounts in the section on “Comments and flags”. You can set flags for multiple accounts via the menu bar in the Data explorer.

To do this mark the accounts you wish to flag. Click the button with the flag in the corresponding color. An account can be marked with up to five flags.

FILTERING OF FLAGS

To filter the record by flags, you can use the filter button in the thirds columns header.



DATA HARVESTS



You can also launch all data harvest jobs from the Data explorer. All of the marked accounts are always considered. The accounts that were previously marked are considered during data harvesting.

Harvesting options may vary depending on the network.

FRIEND LISTS



Friend lists are loaded for the marked accounts. It is not possible to load lists of friends of friends via this function.

PROFILE DETAILS



The profile details are loaded for the marked accounts.

For Facebook this includes information on the place of residence, origin and education.

Note!

The number of marked accounts should be limited. Facebook may prevent users from loading profile details too often by blocking the research account. If you need to load the details of a large number of accounts, this should be done in blocks. Based on our experience, no more than 30 accounts should be queried simultaneously. There should be a break of at least one hour between the different blocks.

POSTS



Public timeline posts are loaded for the marked accounts.

PHOTO ALBUMS



Public photo albums are loaded for the marked accounts. Unlike saving via the browser section, all photo albums for the accounts are considered here. No selection window appears.

PROFILE IMAGES



In addition to the known data harvesting options, you can also only harvest the profile images and title images of the marked accounts here. This makes sense in instances where you only want to use the images to identify the profile owners.

UPDATE



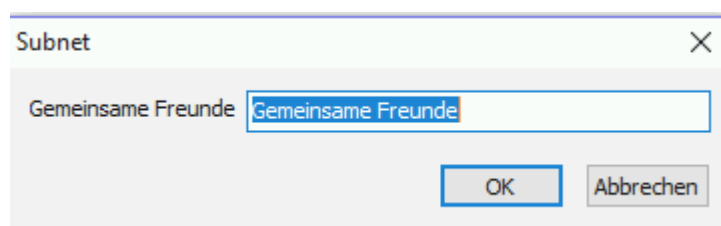
The current profile image will be reloaded in a later version (if possible).

MUTUAL FRIENDS



“Mutual friends” finds mutual friends of the currently marked data records in the saved profiles. At least two data records must be marked for this. The result is shown as a new database filter on the left-hand side. The marked data records are additionally added to this database.

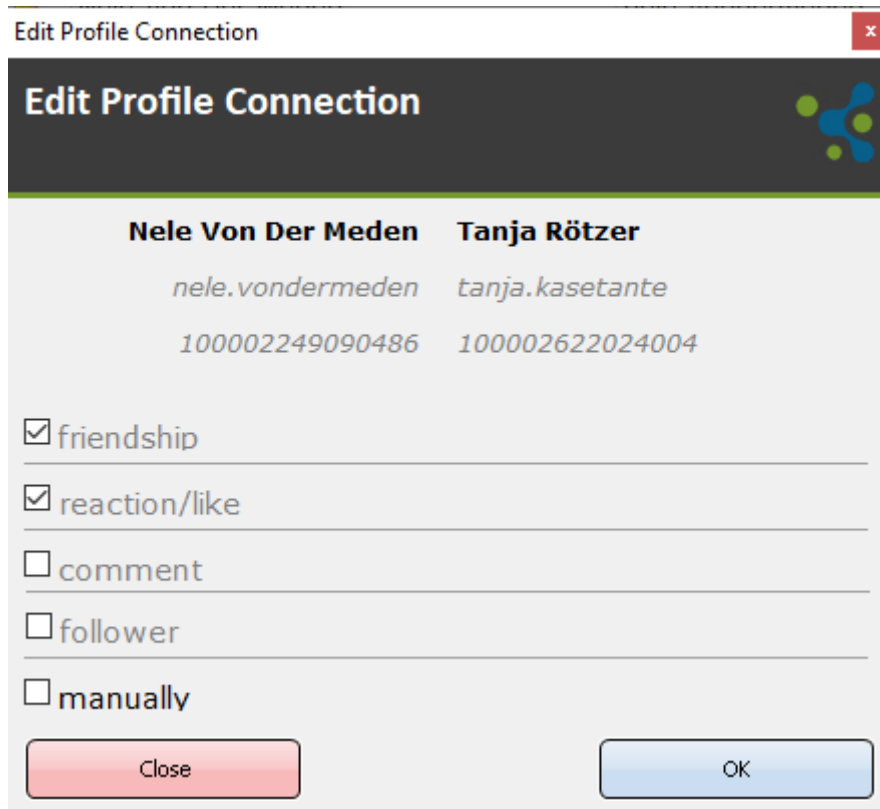
The new database can be named independently:



PROFILE CONNECTIONS

If you select two profiles by using the checkboxes, you can display the type of the connection between the two profiles (friendship, reactions, comment, follower, manual connection)

By using the button , the following window will appear:



Nele Von Der Meden	Tanja Rötzer
<i>nele.vondermeden</i>	<i>tanja.kasetante</i>
100002249090486	100002622024004

☒ friendship

☒ reaction/like


☐ comment

☐ follower

☐ manually


Close OK

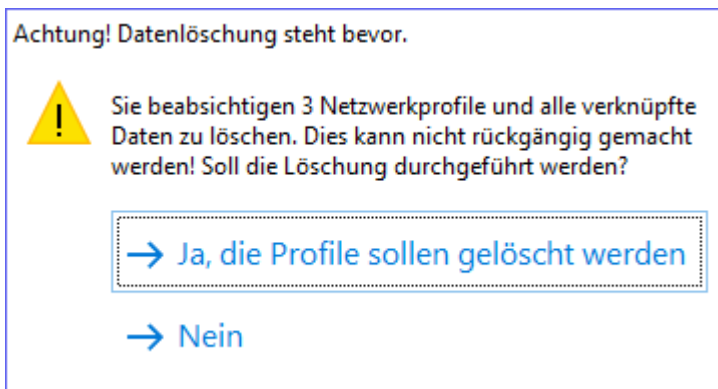
ADD PROFILES TO ANALYTICS

Click the  button to add all checked profiles, and if none of the profiles is checked, the bordered profile, to Analytics.

DELETE PROFILES

In individual cases it may be necessary to delete profiles from the SNH database. This can be done via the Data explorer. To do this all of the profiles you wish to remove must be marked.

The  button launches the delete process. However, it must be reconfirmed:



You cannot undo the delete process!

The following contents are deleted:

- Profile data from all databases
- All of the photo albums of a profile
- All of the posts of a profile
- All links between the profile and other profiles

PROFILE FEATURES

Information on the currently selected account (blue background) is shown in the profile section on the right-hand side of the Data explorer:

- Profile name
- Profile ID1
- Profile ID2

It is also possible to enter notes on the account into the notes field.



Account-specific actions can be taken in the top section.

ACCESS FRIEND LIST



The friend list (contacts already saved in SNH) for the currently selected account is shown in the navigation item Friend list.

NEW DATABASE



The friend list (contacts already saved in SNH) for the currently selected account is created as a new data record under “Groups” in the Data explorer.

SELECT FRIENDS



The accounts for the friend list (contacts already saved in SNH) for the currently selected account are selected in the currently shown Data explorer database.

ACCESS PROFILE



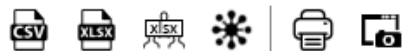
The currently shown profile is displayed in an integrated browser online.

ANALYTICS



The currently shown profile is added to analytics.

DATA EXPORT



EXPORT AS CSV FILE



All of the currently shown accounts are exported as CSV files. The “,” (comma) is used as a data separator.

Table structure:

#:	Counter
Username:	Displayed user name
URL:	URL of the network profile
User ID1:	User ID of the network profile
User ID2:	Secondary user ID of the network profile (if available)
Friends:	Number of known friends of the profile

EXPORT AS XLSX (EXCEL) FILE



All of the currently shown accounts are exported as XLSX files.

Table structure:

#:	Counter
Screen name:	Displayed user name
Username:	User ID of the network profile
User ID:	Secondary user ID of the network profile (if available)
Known contacts:	Number of known friends of the profile
URL:	URL of the network profile
Notes:	Notes on the profile entered into SNH
City:	Information on the profile owner's place of residence (if available)
Hometown:	Information on where the profile owner is from (if available)

EXPORT FRIEND LISTS AS XLSX (EXCEL) FILE



The saved friends of all selected accounts in the Data explorer are saved in separate Excel files. The individual Excel files are named using the User ID for the respective account. A separate Excel file is saved for each account. The target directory must be selected before saving.

Table structure:

#:	Counter
Type:	Type of profile
	- User
	- Group

- Page/Community

Screen name:	Displayed user name
Username:	User ID of the network profile
User ID:	Secondary user ID of the network profile (if available)
URL:	URL of the network profile
Reactions:	Number of recorded reactions (e.g. likes)
Date:	Date of first record
Source:	Information on the source of the data
Connection Type:	Type of friendship:
“Like” reaction:	Number of Like reactions
“Love” reaction:	Number of Love reactions
“HaHa” reaction:	Number of HaHa reactions
“Wow” reaction:	Number of Wow reactions
“Sad” reaction:	Number of Sad reactions
“Angry” reaction:	Number of Angry reactions

EXPORT AS SNH FILE



All of the currently shown accounts including their friends are exported.

PRINT LIST



All of the currently shown accounts are output for printing in tabular format.

Table structure:

Username:	Displayed user name
-----------	---------------------

Profile ID: User ID of the network profile

Profile ID (alternative): Secondary user ID of the network profile (if available)

Connections: Number of known friends of the profile

URL: URL of the network profile

Notes: Notes on the profile entered into SNH

EXPORT AS SCREENSHOTS



Current screenshots are prepared for all of the currently shown accounts and saved to a freely selectable directory. The network profiles are not scrolled through to the end. Only the top section is saved (approx. 1000px).

All screenshots are saved as a JPEG file and named with the user ID.

Since the profiles are accessed in real time, it may take a considerable amount of time to save them, depending on the number of profiles you wish to save.

Similar to the screenshot function in the browser view, you have the option of hiding information on the investigator's account.

CONTEXT MENU



When you right-click on a data record in the Data explorer a context menu appears. The following options are available:

- Copy (copies the selected data record "Tab separated")
- Copy table (copies all displayed data records "Tab separated")
- Log: Harvesting information is shown.

NAME ANALYZER

In conjunction with the “Search User” function, the Name Analyzer offers you the option of performing analyses based on specific people.

The prerequisite is that at least two (preferably three) target persons are known who are suspected to be connected to one another via Facebook.

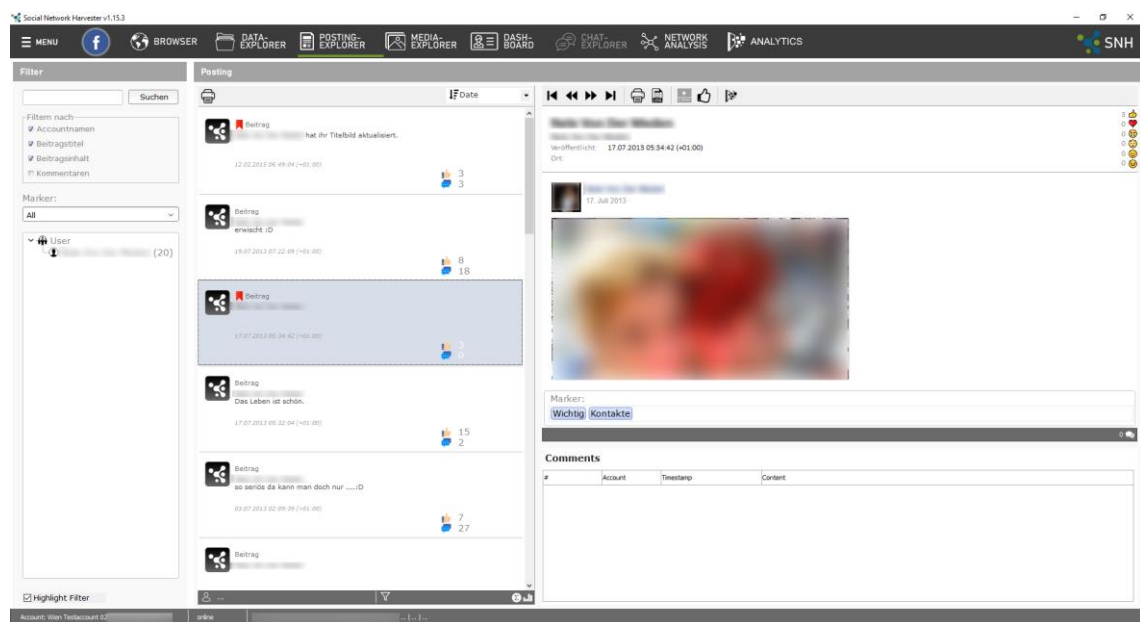
1. To harvest all profiles with the known names including their friends, see “Search User” in the section on “Data harvesting”.
2. Start the “Name Analyzer” and enter identical names, as you would during the friend search.
3. In the next step SNH prompts you to define how accurate you wish the analysis to be. For very accurate analyses, the first and last names must match the persons you are seeking. For less accurate analyses, a partial name match is sufficient.
4. The Analyzer delivers the accounts that most closely match the requirements.

Example:

Let’s assume that you are looking for the Facebook accounts of Rüdiger Richter, Michael Müller and Stephan Schmidt. You assume that these people are also connected with one another via Facebook. You were unable to find any results via the normal Facebook search functions.

First, you use the name search to load all of the Facebook accounts with the names you are searching for in SNH. Then you load all of the friends of the account. Finally, the Name Analyzer delivers you the accounts of Rüdiger Richter, Michael Müller and Stephan Schmidt, all of whom are Facebook friends.

09 POSTING EXPLORER



The “Posting explorer” tab is not shown until a timeline is harvested in the current project. The Posting explorer has three different panes:

- Left: Account selection
- Center: List of posts
- Right: View of posts

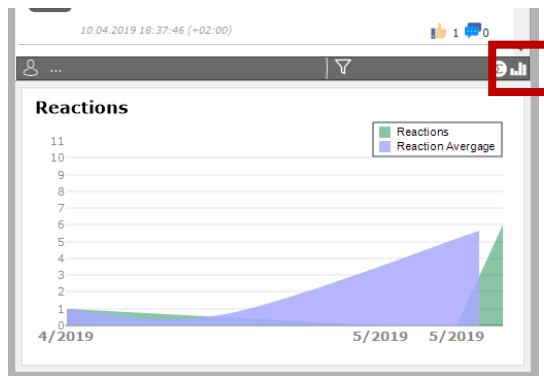
ACCOUNT SELECTION

All accounts for which posts are saved in the current project are shown in the account selection pane. Double-clicking allows you to filter the displayed posts in the list of posts. Double-clicking on any user name only shows this user's posts in the list of posts.

The search functions can be used to filter posts by keywords. Double-clicking on “User” removes all of the filters.

Additionally, you can filter the postings by selecting used tags.

There is a status bar below the list of posts that shows the current person and text filter. You can view the total number of filtered posts here, too. Double-clicking on the statistics icon opens the post timeline for the current filter.



The “Highlight Filter” checkbox highlights the currently filtered search terms in yellow.

LIST OF POSTS

The list of posts includes a tabular list of the harvested posts in connection with the currently set filter. If SNH supports harvesting the number of reactions and comments for the current network, then these are also shown here. If a post includes a video and this video was harvested, then an information icon appears.

Posts can be opened by double-clicking on a list element or by using the navigation arrows above the detailed view.

VIEW OF POSTS

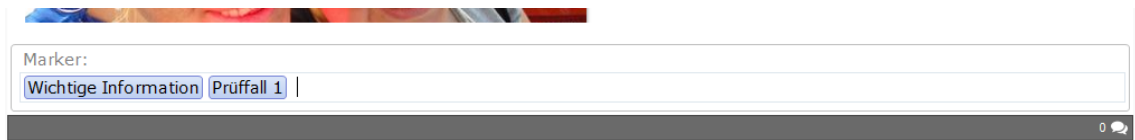
The view of posts includes an offline view of the harvested post. The design mirrors that of the network. If details on different reactions are harvested (currently only available for Facebook), then these are shown here using icons.

If comments are harvested, these can be shown by clicking on the selected icon.

The screenshot shows a table titled 'Comments' with the following data:

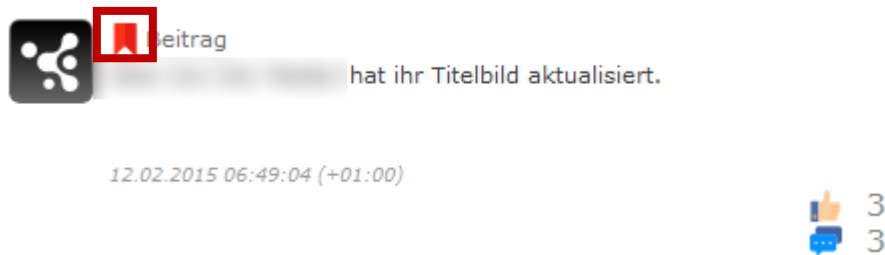
#	Account	Timestamp	Content
0	Je Ru	28.05.2019 08:09:11 (+02:00)	Kir die he
1	Me Bo	28.05.2019 06:29:08 (+02:00)	
2	So Sh	27.05.2019 21:48:55 (+02:00)	Op

Below the postings, is a function to tag the postings by using keywords.

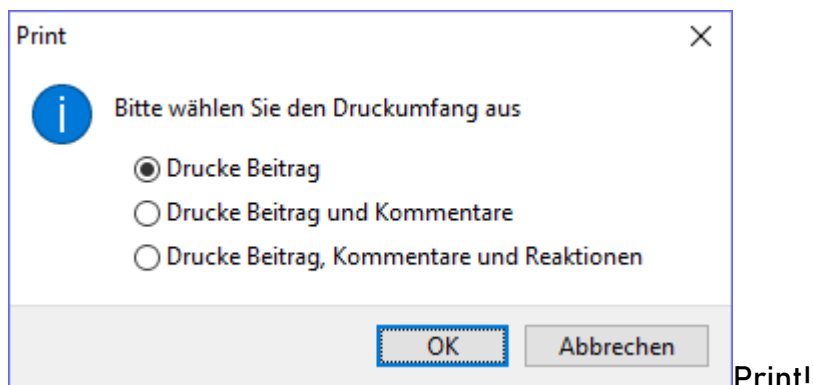


To tag a posting, you have to click inside the text field. There you can type up to three keywords. Confirm the tags with the “Enter” key.

A tagged posting is marked by a red flag.



PRINT FUNCTION



Print!

Use the “Print” icon to print a post. You can select whether only the post and its basic information, the comments or the reactions are also printed out.

SHOW REACTIONS



If details on reactions are harvested, these can be displayed via the “Thumbs up” button.



ADD TO ANALYTICS

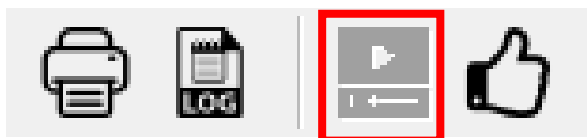


The currently displayed post is transferred to Analytics.

SHOW VIDEO

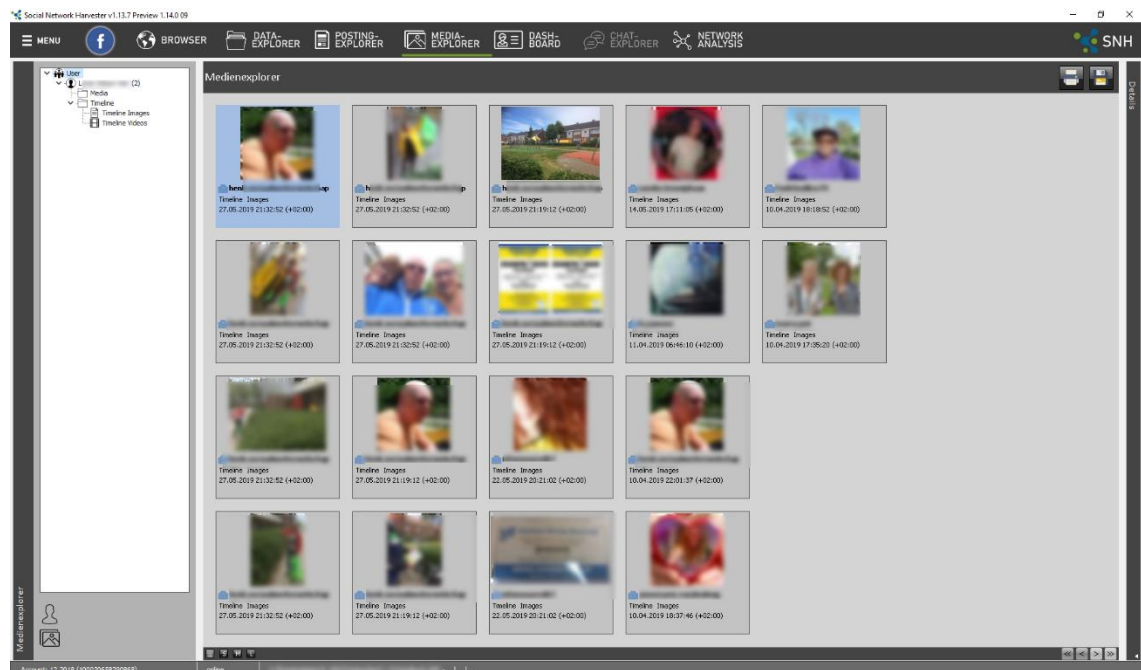
If the post includes a video, this is indicated with a Play button:

Click on the icon to play the video clip:



The default video player in Windows opens.

10 MEDIA EXPLORER



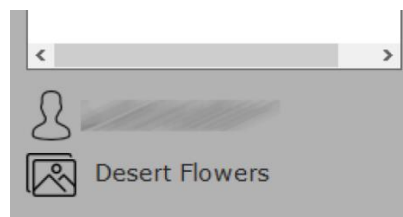
Images and videos from the timeline are also displayed here alongside the harvested photo albums.

The media explorer tab can only be selected if photo albums or media have been harvested in the timeline in the current project. The Media explorer has two different panes:

- Left: Account selection and album selection
- Right: Photo view

All accounts and their photo albums for which photos are saved in the current project are shown in the account selection pane. Double-clicking allows you to filter the displayed posts in the photo view. Double-clicking on any user name only shows this user's photos and videos in the Photo view.

After selecting the album or account, this selection is shown below the selection menu.



Double-clicking on "User" removes all of the filters and the entire image database is shown.

If photos were harvested using the Facebook Graph Search, then the Photo explorer shows “virtual” photo albums for the respective users.

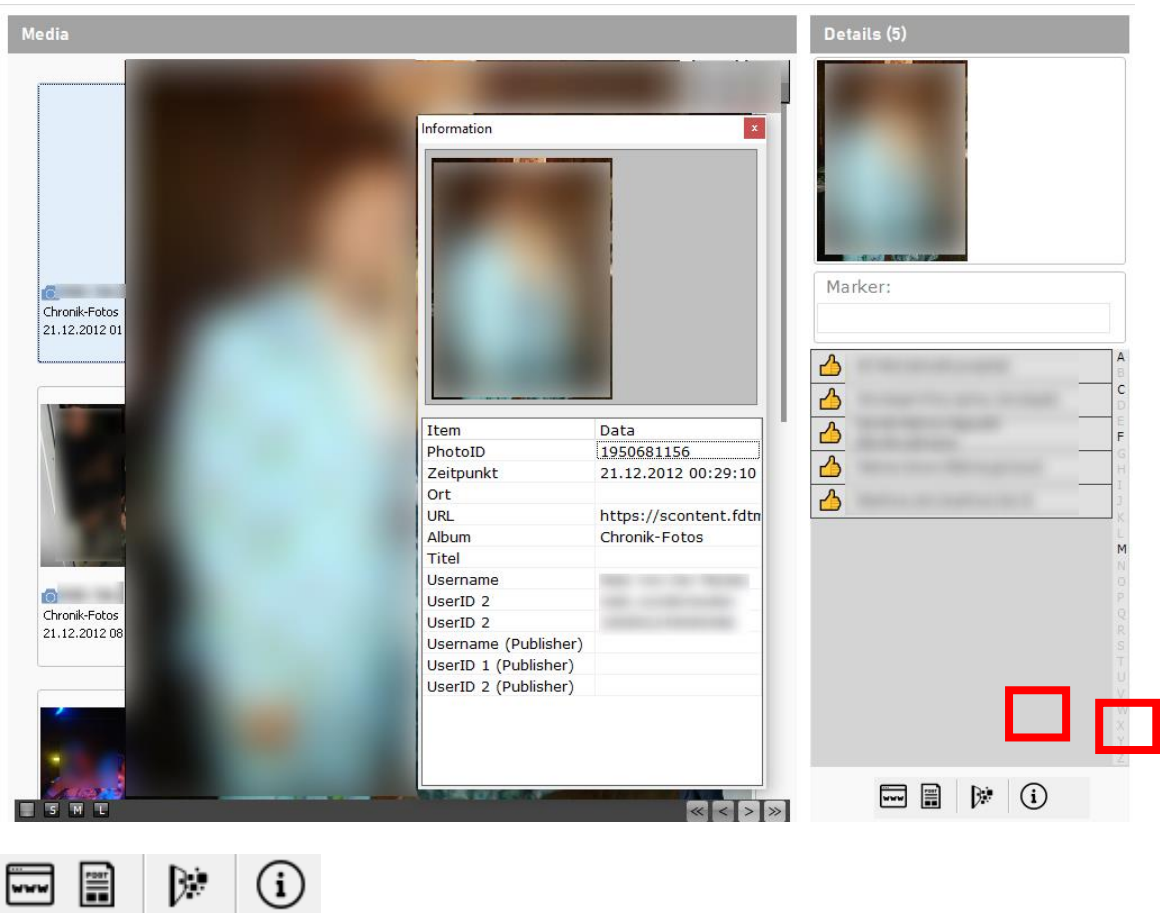
- Liked
- Commented

These photo albums represent the photos that the user either liked or commented on.



Displayed photos can be filtered by file size. If any unnecessary icons are shown in the harvested images of the timeline, then the number of displayed images can be meaningfully adjusted by changing the size filter.





You can click the Info button to display the data harvested along with the image.




MEDIA FUNCTIONS

	Opens the image/the video in the browser (online function)
	Opens the harvesting log

	Shows detailed information on the image/video
	Transfers the media object to Analytics

Below the media preview, there is a function to tag the media by using keywords.



Marker:

To tag media, you have to click inside the text field. There you can type up to three keywords. Confirm the tags with the “Enter” key.

Tagged media is marked by a red flag.



PRINT

Use the Print icon to print out all of the currently shown images in a list.

The print feature in the Media explorer has been expanded to include the “Tile print” function. This enables you to generate “contact prints”.

EXPORT

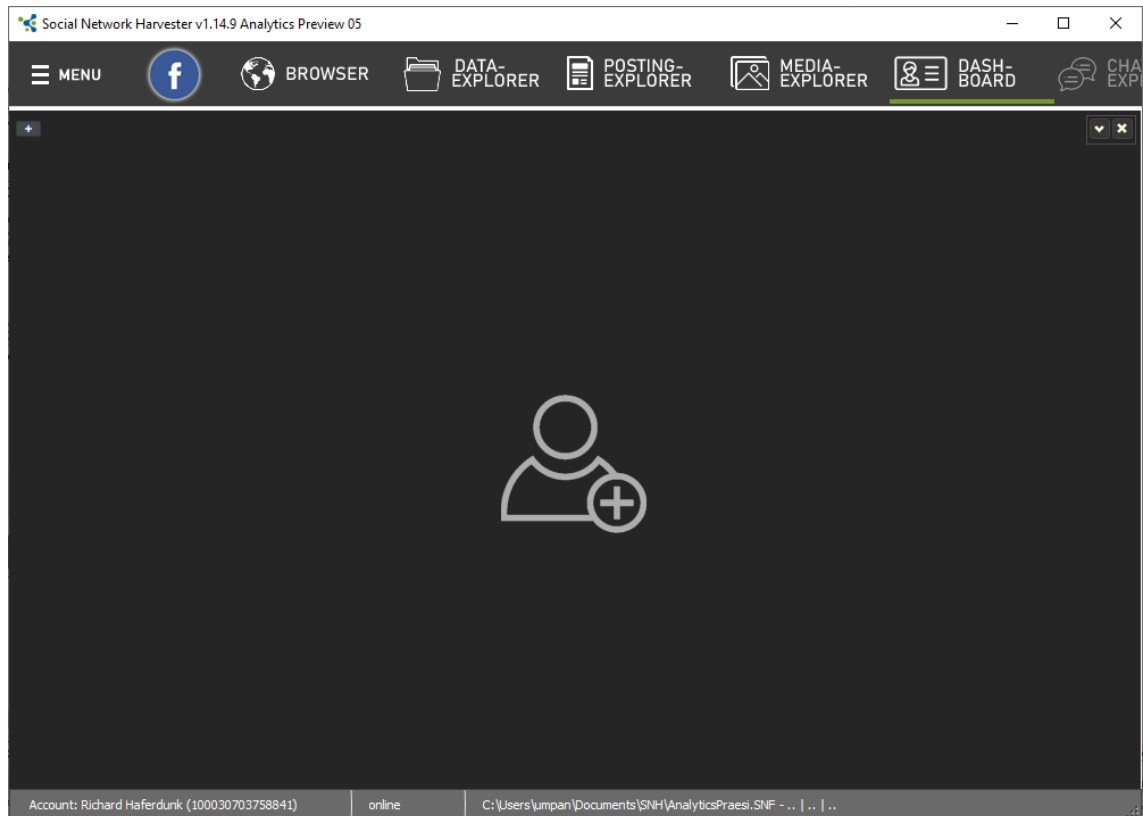
Use the diskette icon to export all of the harvested images. The images are exported into a folder structure that corresponds to the tree view on the left-

hand side. The metadata required to harvest the data is stored in the comment field for the EXIF tags.

Now exporting the photo as an image file refers to the currently selected album/user. It is possible to export all image files by double-clicking “User” in the selection menu to reset the selection filter.

11 DASHBOARD

Click the (+) button or the center icon on the “Dashboard” tab to display the most important profile information at a glance.

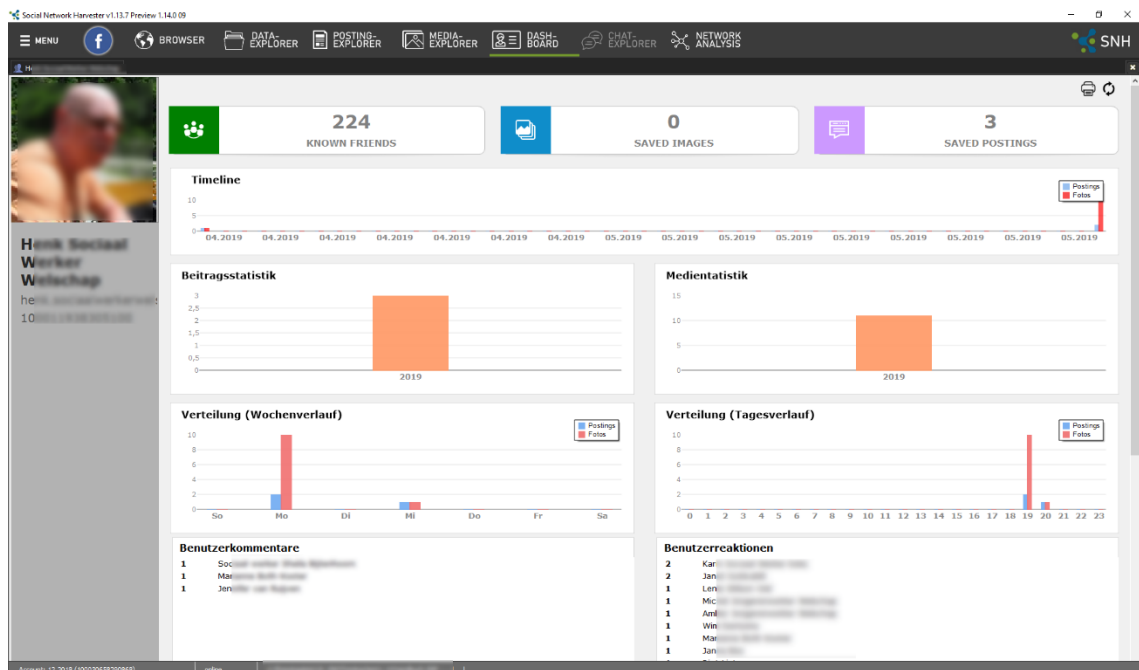


Select

Filter

S...	st...	1000269
B...	re...	1000057
S... Glaser	sy...	1000007
T...	tc...	1000238
S...	st...	1000082
D...	de...	1000266
D...	dc...	1000047
H...	1c...	1000140
U...	ut...	1000030
G...	gt...	1000283
K...	ka...	1000213
F...	fab.sche...	1000268

Alternatively, you can double-click on the corresponding profile in the Data explorer.



The current user image is shown again on the left along with the various user names.

The following data is prepared for the selected user:

- Friends, saved images, saved posts
- Timeline, post statistics, photo statistics
- Weekly, daily distribution
- User comments and reactions (top scorers). Double-clicking on one of the displayed names also opens it as a new tab under User details.
- Now the contact list for an account is shown directly in the User dashboard. There is no longer a separate “Friend list” menu.

#	Type	Connection	Reactions	"Like"	"Love"	"HaHa"	"Wow"	"Sad"	"Angry"	Username	User ID 1	User ID 2	Date	Source
1	User	f	1	1	0	0	0	0	0	Le...	inf...	168	26.05.2019 13:51:22	Friends: 1000
2	User	f	0	0	0	0	0	0	0	Fur...	561	1000	26.05.2019 13:51:39	Friends: 1000
3	User	f	0	0	0	0	0	0	0	Sch...	1000	1000	26.05.2019 13:51:09	Friends: 1000
4	User	f	0	0	0	0	0	0	0	N...	1000	1000	26.05.2019 13:51:09	Friends: 1000
5	User	f	0	0	0	0	0	0	0	ing...	178	1000	26.05.2019 13:51:09	Friends: 1000
6	User	f	0	0	0	0	0	0	0	Sch...	1000	1000	26.05.2019 13:51:10	Friends: 1000
7	User	f	0	0	0	0	0	0	0	Ch...	181	1000	26.05.2019 13:51:10	Friends: 1000
8	User	f	0	0	0	0	0	0	0	l...	1000	1000	26.05.2019 13:51:11	Friends: 1000
9	User	f	0	0	0	0	0	0	0	M...	176	1000	26.05.2019 13:51:11	Friends: 1000
10	User	f r	1	1	0	0	0	0	0	M...	1000	1000	26.05.2019 13:51:11	Friends: 1000
11	User	f	0	0	0	0	0	0	0	ic...	1000	1000	26.05.2019 13:51:11	Friends: 1000
12	User	f	0	0	0	0	0	0	0	R...	1000	1000	26.05.2019 13:51:11	Friends: 1000

The following columns are output in the results:

- No. (consecutive number)
- Type (type of account: User, Group, Page)
- Connection:

f = Friends from the friend list
r = "Likes and reactions"
c = Comments
m = Manual

- "Like": Number of Like reactions
- "Love": Number of Love reactions
- "HaHa": Number of HaHa reactions
- "Wow": Number of Wow reactions
- "Sad": Number of Sad reactions
- "Angry": Number of Angry reactions
- Username:
- User ID 1 (vanity name)
- User ID 2 (numeric)
- Date
- Source

The "Print" button brings the Dashboard into a printable format.

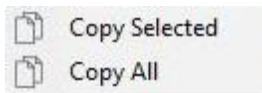
The "Update" button allows you to reload the currently displayed Dashboard.

Multiple profiles can be shown in different tabs. These can be closed again by clicking on the x on the right.



CONTEXT MENU

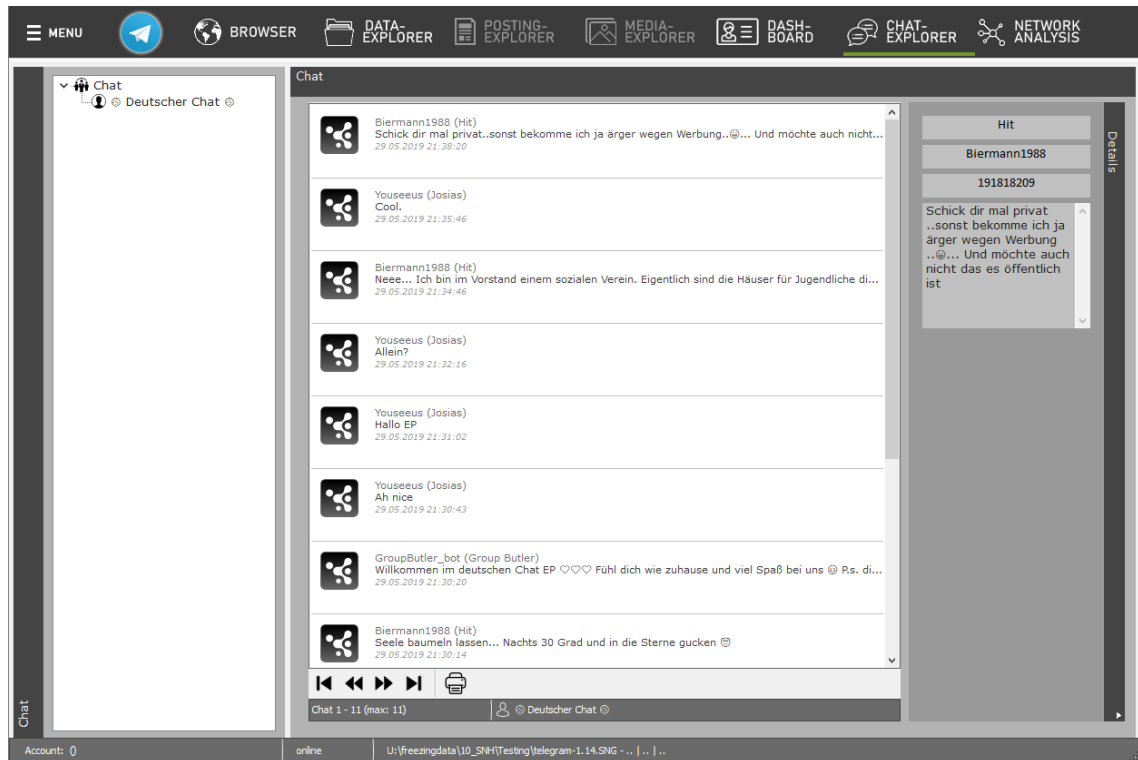
Here you also have the option of right-clicking to access a context menu.



Like the Data explorer, you can copy a selected data record or all of the data records to the clipboard for further processing in a different program.

12 CHAT EXPLORER

The harvested messages from the previously saved group messages are presented in the Chat explorer for further processing.



The harvested groups are shown in the left pane. The posts are shown in the center. The details of the individual posts are shown in the right pane.

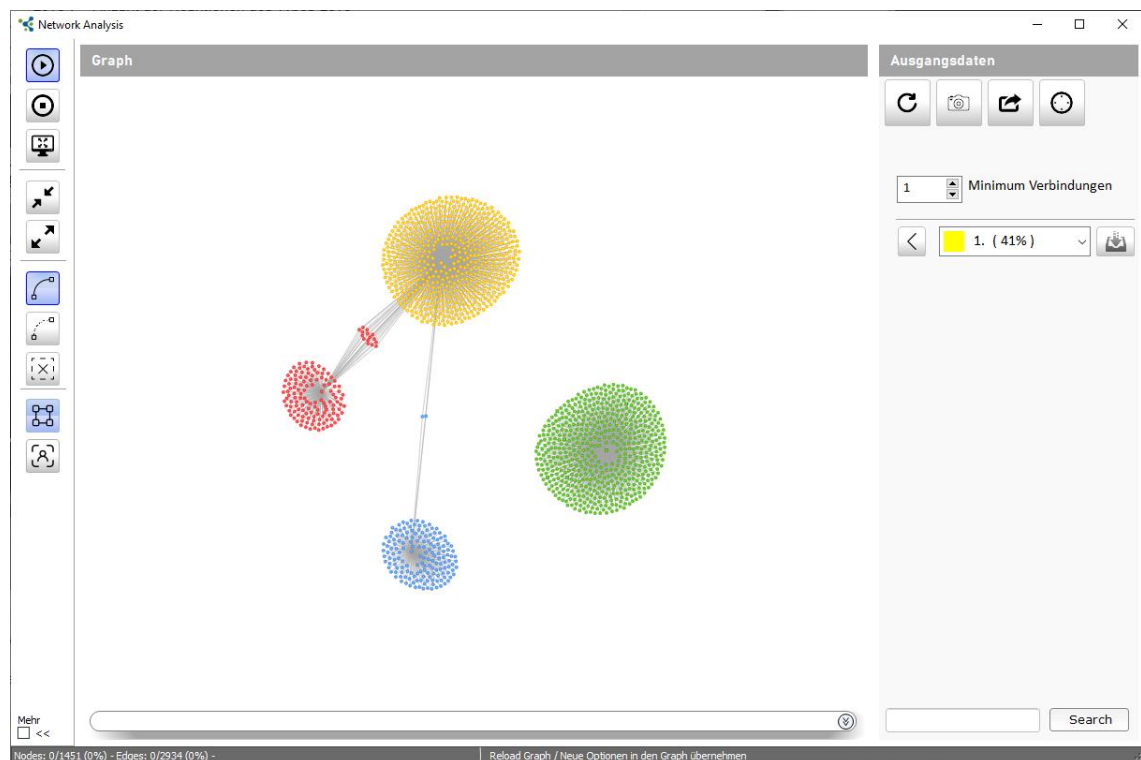
If a chat post comprises an image, it is shown in the preview area on the right. Click the preview image to zoom in.

13 NETWORK ANALYSIS

Click the menu item "Network analysis" to analyze and display the Social Network.



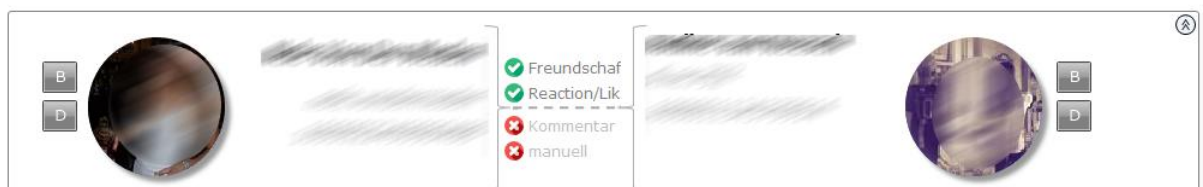
A new window opens. We recommend displaying this window in maximized (full-screen) mode:



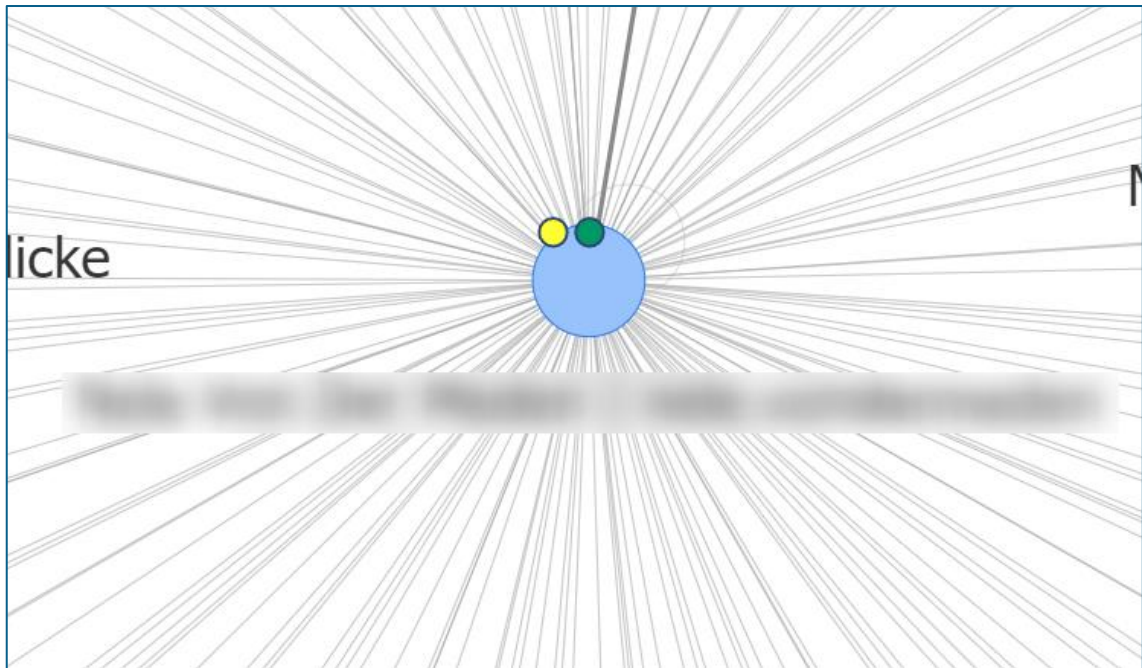
The Network view is divided into three panes. The center pane shows a preview of the analyzed social network (sociogram). It includes a search field.

Differentiation of relationships is only shown if the data was harvested using SNH Version 1.12.1 or later.

Now the graphical presentation of the link analysis is expanded in a detailed view. Double-clicking on the account or the link opens the detailed view in the bottom pane. In addition to the account you can select whether it should be shown in the Browser or the User dashboard.



Tagged Profiles are marked by colored circles.



The tool bars are located on the left and right.

TOOL BAR

The tool bar on the top right-hand side includes the following functions:



“Update”

Click the “Update” button to recalculate and display the network. This calculation may take a considerable amount of time depending on the size of the network.



“Screenshot”



A user-created view can be saved as a PNG file. You can choose the desired edge length of the image here (max. 5000px). Click the button to open the “Save as” window.



“Export graph as HTML standalone”



“Reset graph”

The tool bar on the left includes the following functions:



“Start auto-arrange”



“Stop auto-arrange”

The sociogram can auto-arrange or freeze the current status when the “Start” or “Stop” buttons are pressed.



“Fit Screen”

If the network is very large and only a part of it is shown in the current view, clicking the “Fit Screen” button adjusts the entire network to fit the visible workspace.



“Collapse graph”



“Expand graph”



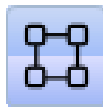
“Show connections”



“Hide connections”



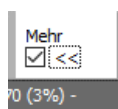
“Delete search results”



„Display elements by using icons“



„ Display elements by using profile pictures“



Advanced graph presentation options



Gravity constant: Determines the degree to which the individual nodes gravitate toward one another

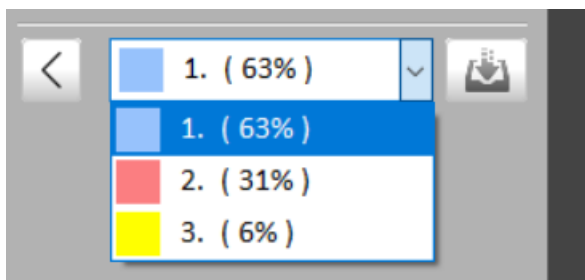
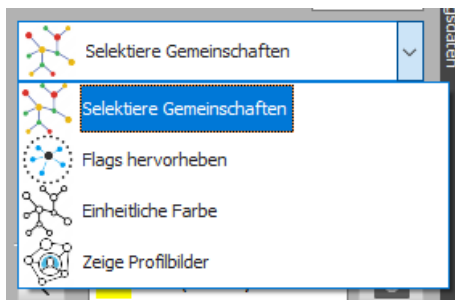
Center of gravity: Determines how the graph revolves around a preconceived center of gravity

Origin and length of origin: Values on the minimum length of a connection (edge)

MENU: OUTPUT DATA

The following settings can be configured under the menu item “Output data”:

Minimum connections: Based on the numerical value the maximum existing number of connections (friendships) is selected and only connections with more than this are shown. If the number you selected is below the optimum number of connections defined by the system, then the number is shown in red. It may take longer to present this information than if you had used the optimum settings.



Select the “Community” to transfer it to the Data navigator by pressing the “Transfer” button.

Click the arrow (on the left, next to the community selection) to visually filter the graph for the selected community. The filter can be removed using the “Reset” function.

Double-clicking on a profile (node) opens the clicked profile in SNH's internal browser.

TRANSFERRED COMMUNITIES

If communities are exported from the graph view to the Data explorer, then they appear there in the database selection. This selection is a preset filter. Double-

clicking on a database sets the “current filter” of the Data explorer to this database and to the database of the graph view.

EXPORT

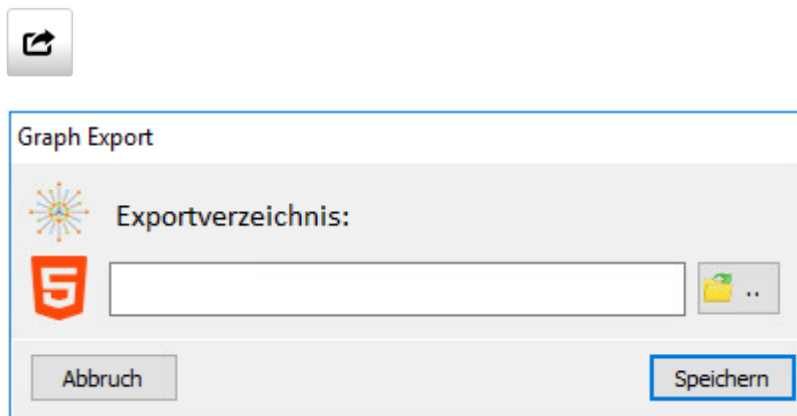
EXPORT AS HTML

The graph currently displayed in the graph view can be exported as a browser version in HTML format. Then only a browser (Chrome, Firefox or Edge) is needed to view the data. Internet access is not required. It is only needed if you wish to access network profiles from the graph (by double-clicking on the profile).

The export includes the graph and accepts all of the currently set filters. Elements that are not currently shown are not included in this export. Similarly, all of the current profile positions are also exported.

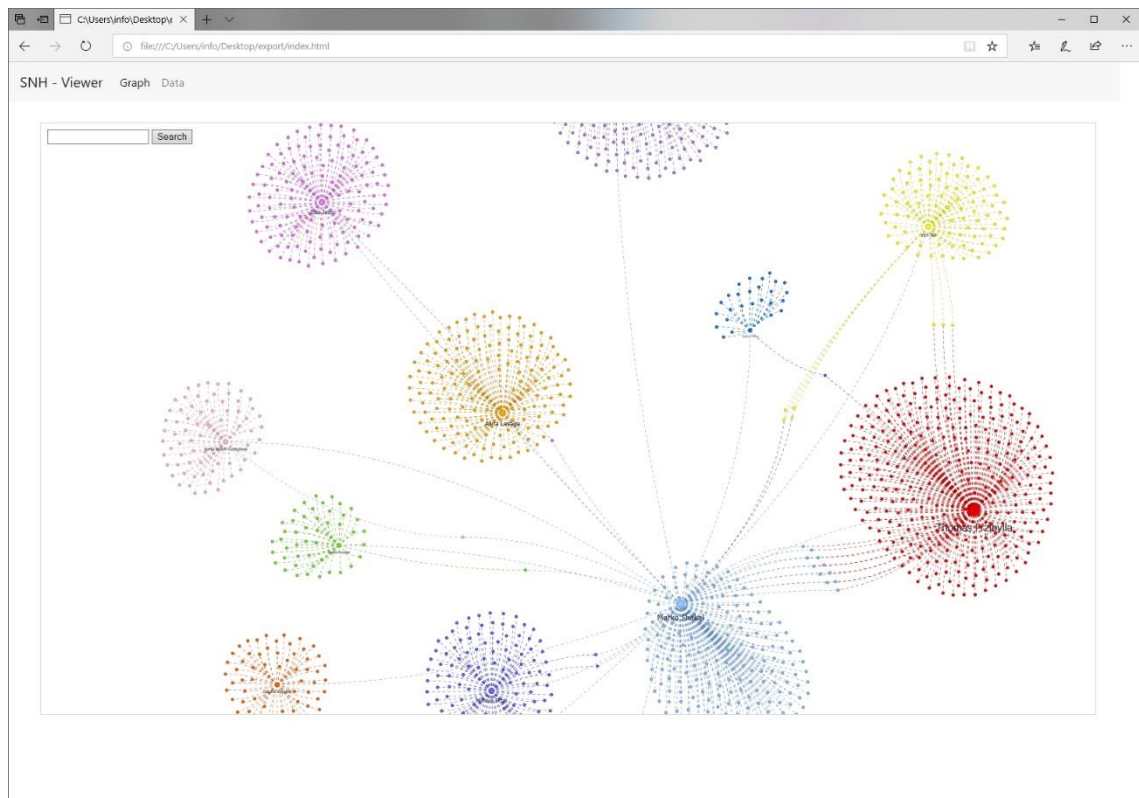
In addition to the graph, the export also features a tabular list of all of the included profiles.

The export is launched in the graph view using the export icon:



The export requires an empty directory that SNH can use to store all of the necessary files. The directory can only be saved to storage media.

This data can now be displayed by accessing the file “index.html” in the directory in a web browser.



SNH - Viewer Graph Data

#	Community	Label	URL	User ID 1	User ID 2
1	1	N...	https://www.facebook.co...	fa...	10...
2	1	A...	https://www.facebook.co...	ai...	71...
3	2	V...	https://www.facebook.co...	10...	10...
4	3	U...	https://www.facebook.co...	al...	10...
5	4	N...	https://www.facebook.co...	m...	10...
6	5	J...	https://www.facebook.co...	ju...	17...
7	1	A...	https://www.facebook.co...	al...	10...
8	6	V...	https://www.facebook.co...	vi...	10...
9	7	A...	https://www.facebook.co...	al...	57...
10	8	N...	https://www.facebook.co...	m...	10...
11	9	V... C...	https://www.facebook.co...	10...	10...
12	10	K...	https://www.facebook.co...	k...	11...
13	11	T...	https://www.facebook.co...	10...	10...
14	1	J...	https://www.facebook.co...	jk...	10...
15	12	S...	https://www.facebook.co...	sc...	10...
16	13	Z...	https://www.facebook.co...	zc...	12...

14 ANALYTICS

SNH features an Analytics module to enable visual analysis of friendships and content.

To open Analytics, either click on the menu option “Analytics”

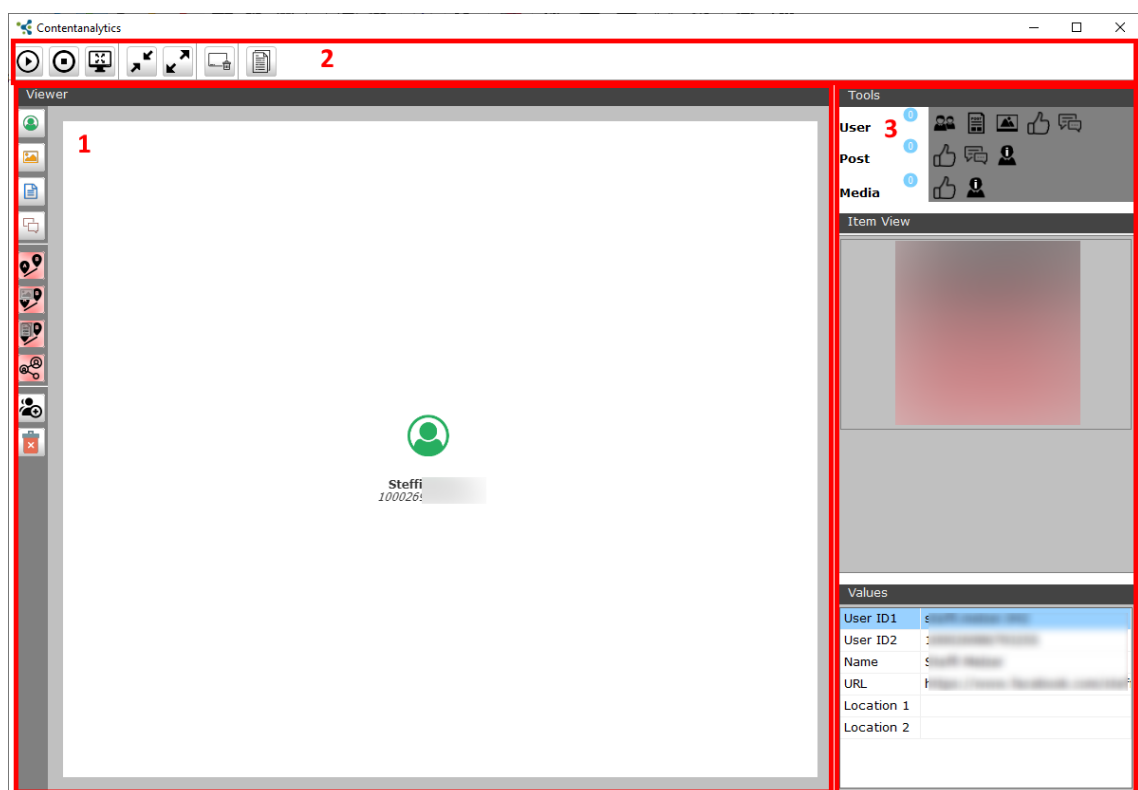


or add an item to Analytics in the Data explorer, Posting explorer or Media explorer.



Note!

If you only wish to show friendships, it might be preferable to use SNH's built-in network analysis feature, particularly for large friend lists.



Analytics has three different panes:

1. Viewer

The Viewer presents an analysis graph with its integral components. The control elements on the left allow you to select and manipulate items.

2. Menu







The menu offers features pertaining to the arrangement and appearance of the graph.

3. Item view

The Item view shows the content of items. It also allows you to add elements and connections.

VIEWER

The Viewer presents items in graphical format. A separate icon is used to represent each added element.


	User account
	Group
	Page
	Post
	Media (image or video)
	Comment



Note!

Visualization of Telegram chats has not yet been integrated in Analytics.











Brief information is included directly below the elements.

The connections between the elements are structured and colored to make it easy to determine the type of connection. There is also a brief description at the connection.








Blue arrow 	Friendship
---	------------

	Depending on the network the type of relationship may also be indicated. Friend: Friend list/Following Reactions: Determined reaction/Like Comment: Determined comment
Red arrow 	Published post The arrow points away from the user who published the post and to the post, image or video.
Dotted blue arrow 	Comment The arrow points away from the user who made the comment and to the comment.

There are several buttons on the left-hand side of the Viewer:

	Select all displayed user accounts (including pages and groups).
	Select all currently displayed media.
	Select all currently displayed posts.
	Select all currently displayed comments.
	Remove all of the selected elements from the graph. The database of the SNH case is not modified and the element remains there.
	Add a new account to the graph.
	If more than one personal profile is selected in the graph, then the direct relationships (friendship, reaction, comment) are visualized in order.
	If more than one personal profile is selected in the graph, then media are shown for which mutual reactions exist.
	If more than one personal profile is selected in the graph, then posts are shown for which mutual reactions or comments exist.
	If more than one personal profile is selected in the graph, then mutual friends are shown.

MENU

	Auto-arrangement of the graph is enabled.
	Auto-arrangement of the graph is disabled.
	The size of the graph is adjusted to fit the size of the Viewer.
	The distances between the presented items are shortened, making the graph more compact.
	The distances between the presented items are lengthened,
	Reset graph. All presented elements and connections are removed.
	Prepare an analysis report.

Note!
This version does not yet support saving the current graph in the case.

ITEM VIEW

The Item view is split into three panes:

ITEM VIEW

The visual contents of an item are displayed.

Profile: Presentation of the profile image

Post: Presentation of the post

Media: Presentation of the photo or a still image


VALUES





Key item information is listed here.




TOOLS



Item tools enable you to add additional elements to the currently selected items.

Individual functions are integrated for each item type (profile, post, media).

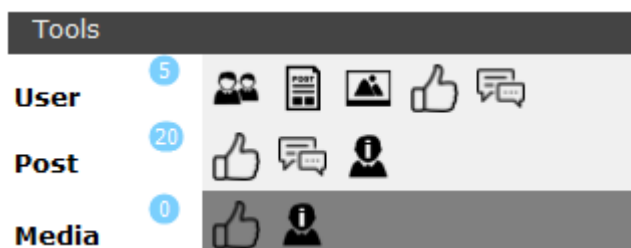
Profile (User)	
	Friends of the selected profiles are presented.

	Posts published by the selected profiles are presented.
	Media items published by the selected profiles are presented.
	Reactions made by the selected profiles (to posts or media) are presented.
	Comments published by the selected profiles are presented.

Post	
	All profiles that reacted to the selected posts are presented.
	All comments and commenting profiles on the selected posts are presented.
	The poster is presented.

Photo/Video (media)	
	All profiles that reacted to the selected media are presented.
	The media item poster is presented.

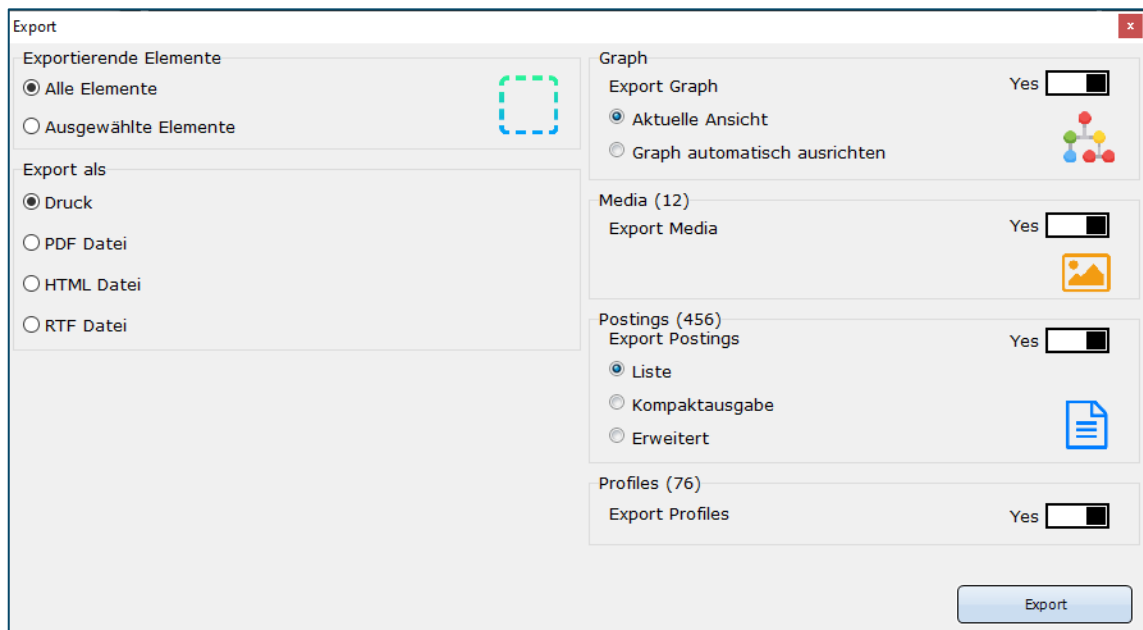
Only the tools for which corresponding items have been marked can be chosen in the tool window. The screenshot below shows five selected profiles and 20 selected posts, but no media. This is why only the functions for profiles and posts can be chosen. Functions for media are grayed out.



The functions are always listed for all selected items of the same type.

ANALYSIS REPORT

The analysis report enables you to export the presented content into an associated document. The elements of the document can be selected via the export options.



EXPORTED ELEMENTS

The elements to be exported for the report can be selected here. There are two options available. Selecting “All elements” exports all of the elements presented in the graph. If you only wish to include the selected elements in the report, then you must choose “Selected elements” here.

The number of elements is presented in parentheses in the corresponding section.

The selection does not affect the graphical export of the graph.

GRAPH

Here you can select whether a screenshot of the graph should be added to the report. The screenshot can either include the entire graph (Auto-arrange graph) or the currently displayed section (Current view).

MEDIA

Here you can select whether media content should be included in the report.

POSTS

Here you can select whether posts should be included in the report.

The scope of the information included here is selected via the options “List”, “Condensed output” and “Expanded”.

Export scope of posts	
List	<p>The list view only includes basic information:</p> <ul style="list-style-type: none"> • User name of the author • Time of publishing • Title, if available • Number of harvested reactions • Number of harvested comments • URL
Condensed output	<p>Under Condensed output information on each post is presented on one page:</p> <ul style="list-style-type: none"> • User name of the author • Time of publishing • Title, if available • Number of harvested reactions • Number of harvested comments • URL • Screenshot of post
Expanded	<p>In addition to the content included in the Condensed output option, Expanded output includes the content of comments and all reactions.</p>

15 CONTACT DETAILS

Freezingdata GmbH

Am Riet 3 | 47929 Grefrath | Germany

Email: info@freezingdata.de | Web: www.socialnetworkharvester.de

SALES PARTNERS

GERMANY

Phalanx-IT GmbH

Im Zukunftspark 5 | 74076 Heilbronn | Germany

Email: info@fil.phalanx-it.de | Web: www.fil.phalanx-it.de

AUSTRIA, SWITZERLAND

Arina AG

Via da Liuns 841 | 7550 Scuol | Switzerland

Email: service@arina.ch | Web: www.arina.ch