timberNet Mobile

User manual

kazmos GmbH

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1 Overview

timberNet Mobile is an app for Android and iPhone to record roundwood directly in the forest. You record piles with their location, assortment and volume, measure them with the usual measurement methods and document the transports. The data is synchronized with timberNet and can be exported as an Excel table or a PDF.

1.1 Structure of the data

The app organizes all data in four levels:

Timber list Groups piles, e.g. of a felling or a forest location. A timber list has a number and a year, and optionally a forest district, forest location, location description, felling type, damages and a forest owner.

Pile A stack of wood at a location, with lot and pile number, GPS location, measurement method, images and optionally a buyer.

Measurements The recording of a pile's volume, e.g. the single logs of a trunk measurement. From them, the app computes the volume in solid cubic meters (m^3f).

Transports Wood transported away from a pile. The volume and the transports give the remaining volume of the pile.

1.2 Working offline

All data is stored on the device, so you can work in the forest without a mobile network. As soon as there is a connection again, the app synchronizes the changes with the server (see chapter 10). For areas without a network, you can also download maps in advance (see section 8.2).

1.3 About this manual

Labels of buttons, menu entries and fields of the app are **highlighted like this**. The figures show the Android version of the app. On the iPhone, some elements such as selection lists and switches look slightly different, but work the same.

2 Getting started

2.1 Installation

timberNet Mobile is available for free in the Google Play Store (Android) and the App Store (iPhone and iPad). Search for *timberNet Mobile* there.

2.2 Creating an account and logging in

When you start the app for the first time, it shows the login.

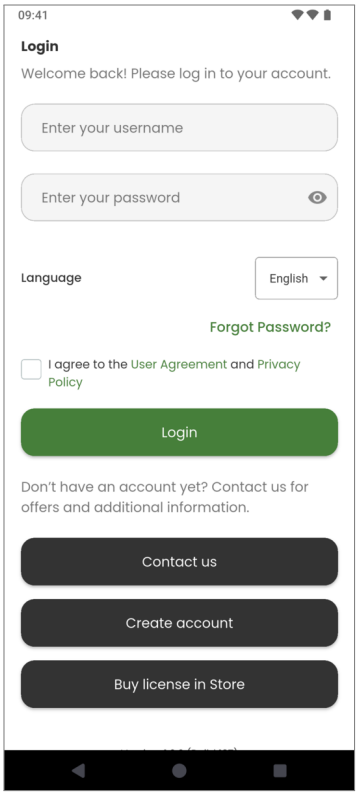

Figure 2.1: Login

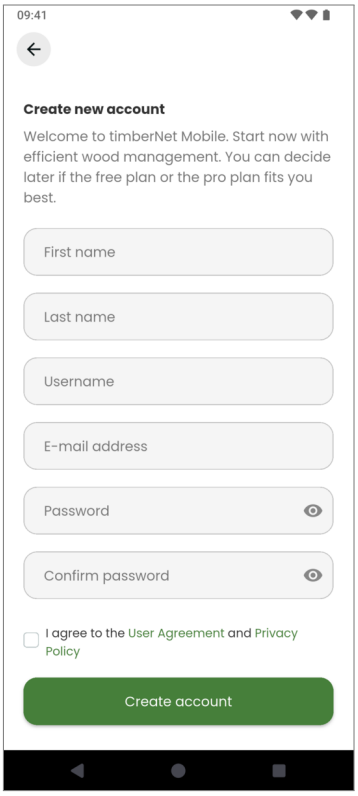

Figure 2.2: Create a new account

- **New account:** Tap **Create account** and enter your first and last name, a username, your e-mail address and a password. You then receive a PIN by e-mail, which you enter in the app. After that, you can log in. If no PIN arrives, request a new one with **Resend?**.
- **Existing account:** Enter your username and password, agree to the user agreement and the privacy policy, and tap **Login**.
- **Language:** Under **Language**, choose whether the app is shown in German or English.

- **Forgotten password:** With **Forgot Password?** you receive instructions to reset it by e-mail.

Your account is the same as for timberNet. Your data is therefore available on all your devices and in timberNet.

2.3 Free and Pro

With a free account (*Free*), you can create one timber list with up to five piles and try out the app. For more timber lists and piles, you need a Pro license. You can subscribe to it in the app with **Settings** → **Buy license in Store**. The license belongs to your timberNet account and is valid on all your devices. On a new device, restore a purchase with **Restore purchases**.

2.4 Master data

Selection lists such as tree species, grades, qualities, thickness classes, forest districts or transport companies are *master data*. They are maintained in timberNet and loaded automatically after logging in. If you changed master data in timberNet, reload it with **Settings** → **Load Master Data**.

2.5 The home screen

After logging in, you see the list of your timber lists. From here, you reach all functions:

- Tapping a timber list opens it with its piles.
- Above the list, you find the search, filters, the map of all piles and the export.
- The bar at the bottom contains the **Settings**, the plus button for a new timber list in the middle, and on the right the **Pile list** with all piles of all timber lists.
- The icon at the top right shows whether all data is synchronized with the server. Tapping it starts the synchronization, as does pulling down the list.



Figure 2.3: Home screen with the timber lists

3 Timber lists

3.1 Creating a timber list

On the home screen, tap the plus button in the middle of the bottom bar. The form **New timber list** opens.

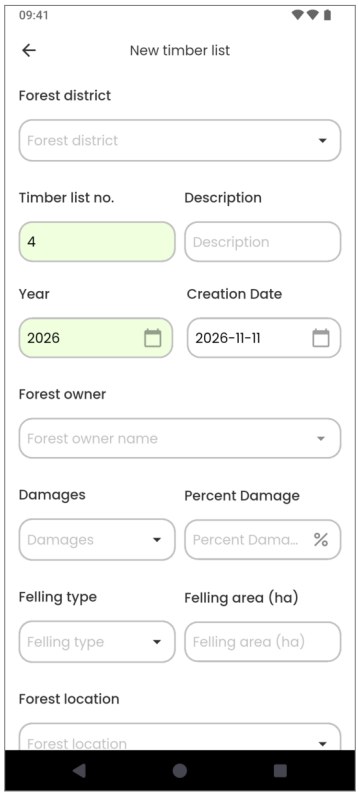

Figure 3.1: Creating a new timber list

Timber list no. and Year Unique together. The app suggests the next free number.

Description A name of your choice, e.g. the felling.

Forest district, Forest location, Location Description You choose the forest district from the master data. Forest location and location description can be searched or entered as new ones.

Felling type, Felling area (ha) Optional.

Damages Type and share of damage in percent, optional.

Forest owner Optional.

Measure with bark, Bark subtraction source Record whether wood in this timber list is measured with bark, and set how the bark subtraction is determined (see section 5.5).

Additional Note Free text.

You can set in the settings which fields are required and which values are preselected (see section 11.2.1). **Save** creates the timber list and opens it.

3.2 Viewing and editing a timber list

Tapping a timber list in the list opens it. At the top, you see the details of the timber list, below them the table of its piles. Tapping the details expands and collapses further information such as forest owner, forest location and location description.

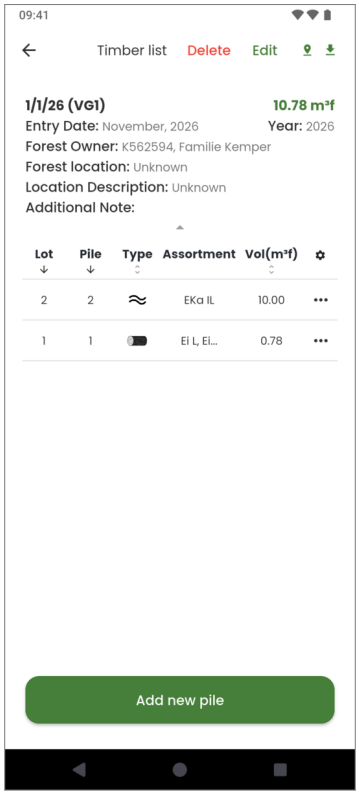

Figure 3.2: A timber list with its piles

- With **Edit** at the top, you change the details of the timber list; with **Delete**, you delete it with all its piles.
- **Add new pile** adds a pile to the timber list (see chapter 4).
- The map icon at the top right shows the locations of the piles of this timber list on a map, the download icon next to it exports the timber list (see chapter 9).

3.3 List of timber lists

3.3.1 Searching and filtering

With the search above the list, you find timber lists by number, year, description, forest district or volume. With the filter icon, you only show timber lists with piles of a certain **Tree Species**,

Grade, **Quality** or **Buyer**. With **Filter by remaining vol.**, you hide timber lists whose wood was transported completely.

3.3.2 Columns and sorting

Tapping a column header sorts the list by this column, tapping it again reverses the order. With the gear icon in the header, you choose the columns shown under **Display settings**: **Number**, **Year**, **District**, **Description**, **Forest location**, **Location desc.** and **Volume**.

The column **Stat** shows whether the timber list is already synchronized with the server.

4 Piles

4.1 Creating a pile

Open the timber list and tap **Add new pile**.

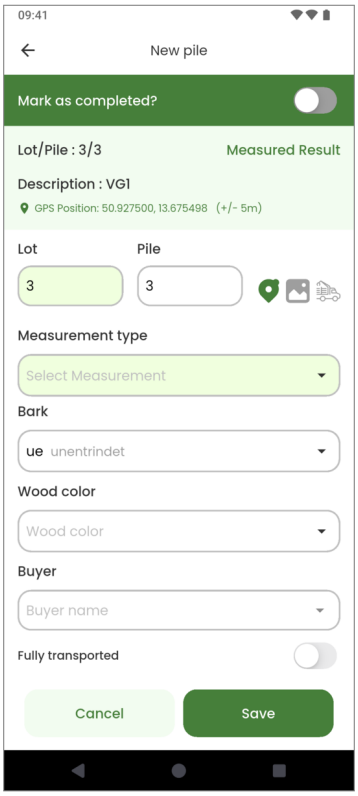

Figure 4.1: Creating a new pile

Lot and Pile Lot and pile number. The pile number can be incremented automatically, either per timber list or per year (setting **Pile reference**, see section 11.3). The app suggests the number after the pile created last, or the next free one.

Measurement type The measurement method of the pile, see chapter 5.

Bark, Wood color Bark thickness and color marking of the pile.

Buyer Optionally the buyer of the wood.

Fully transported Marks the pile as completely transported, see chapter 6.

Mark as completed? Marks the pile as fully measured and recorded. Usually, the pile is then also ready for sale, and no more changes are expected. The mark is synchronized with timberNet, where you can e.g. filter timber lists whose piles are all completed.

4.1.1 Location

When creating a pile, the app determines the location by GPS and improves it while the screen is open, until an accuracy of about 10 m is reached. While the accuracy is still low, the app shows **GPS accuracy low**. Wait a moment at the pile in that case.

With the location icon, you can also choose the location manually on the map, e.g. if you don't record the pile on site. Without a network, the offline map is available for this (see section 8.2). If location services are turned off or the permission was denied, you can also continue without a location.

Tip

If **Measure after pile creation** is turned on in the settings, the app opens the first measurement of the new pile right after saving it.

4.2 Editing a pile

Tapping a pile in the table opens it for editing. Here you can also:

- open the measurements by tapping the volume at the top right (see chapter 5),
- use the icons right of the pile number to change the location (location icon), take or choose images of the pile (image icon), and open the transports (truck icon, see chapter 6),
- split the pile with **Split pile** at the bottom (see chapter 7).

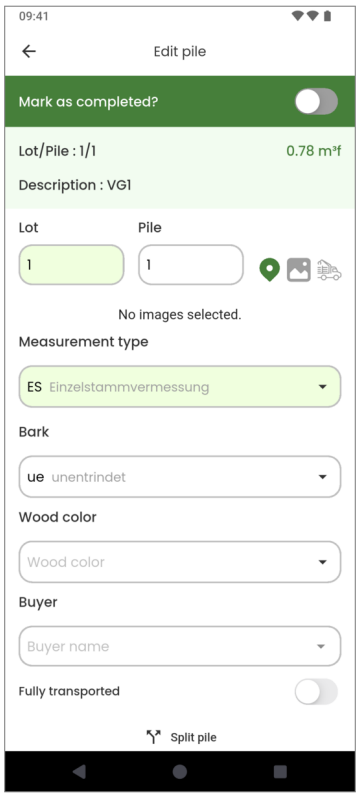

Figure 4.2: Editing a pile

Note

If you change the measurement method of a pile that already has measurements, they are lost. The app asks before.

4.3 The pile table

The table in the timber list shows for each pile its **Lot**, **Pile**, an icon of the measurement method (**Type**), the **Assortment** and the **Volume** in solid cubic meters. If **Show remaining volume** is turned on, the volume not yet transported follows in brackets.

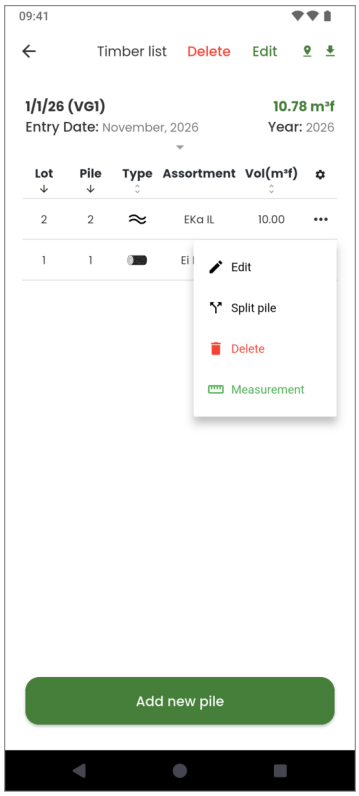

Figure 4.3: Menu of a pile

The menu at the end of a row offers:

Edit Edit the pile.

Split pile **or** **Edit split** See chapter 7.

Measurement The measurements of the pile. If it has none yet, the first measurement opens directly.

Delete Delete the pile with all its measurements, images and transports.

As with the timber lists, you set the columns and the sorting with the gear icon in the header. The table can also be sorted by whether a pile already has a measurement.

4.4 Pile list

The **Pile list** in the bottom bar of the home screen shows all piles of all timber lists. With the filter icon, you narrow it down, e.g. by tree species, grade, quality, volume or remaining volume. At the top, it shows how many piles are displayed. In the menu of a pile, **Open timber list** leads to its timber list.

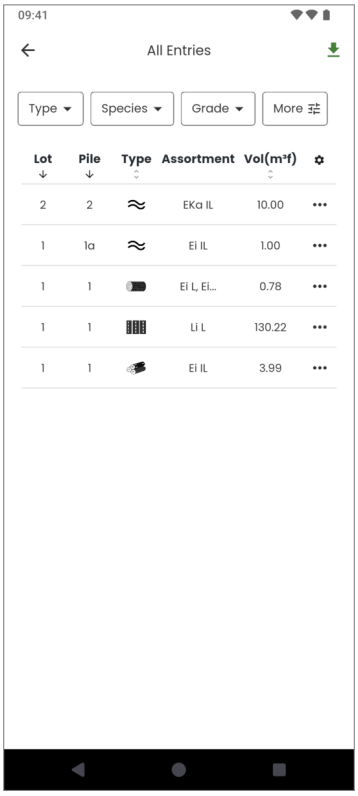

Figure 4.4: Pile list with filters

5 Measurement methods

Each pile has a measurement method, which you choose under **Measurement type** when creating it. You open the measurements with **Measurement** in the pile's menu, or on the pile's edit screen by tapping its volume at the top right. For sectional and center strength measurements, the pile's measurement opens directly.

Method	Code	Measurements per pile
Trunk measurement	ES	any number
Sectional measurement	SM	one, with several sections
Center strength measurement	MSP	one, with several samples
Estimated measurement	SMA	any number

For trunk and estimated measurements, the app lists all measurements of the pile with number, species, quality, length and diameter. **Add New Measurement** adds another one; with the menu of a measurement, you edit or delete it. While recording, **Last measurements** shows the values saved last.

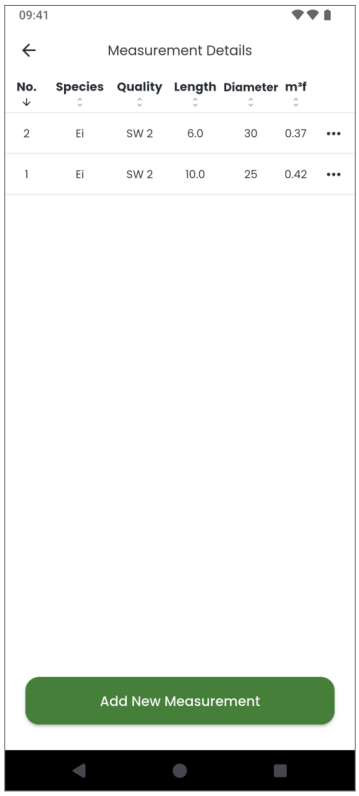

Figure 5.1: List of the measurements of a pile

Each measurement has a **Measurement Number**, which the app increments automatically (setting **Auto Measurement Num**), as well as a **Tree Species**, **Grade**, **Quality** and optionally **Wood Damages**. You can preset values you often use with the pre-assignment (see section 11.2.1).

5.1 Trunk measurement

For each log, you enter the **Length (m)** and the **Diameter (cm)**. The app computes the volume from them and subtracts the bark subtraction from the diameter (see section 5.5).

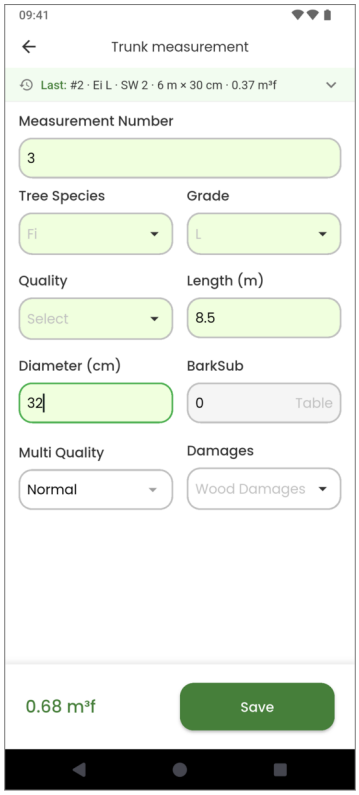

Figure 5.2: Trunk measurement

Quick entry If **Quick enter mode length/diameter** is turned on in the settings, the app automatically moves from the length to the diameter field: right after the first decimal place, otherwise after half a second without further input. This way, you record log after log without tapping the fields.

Check for common values If the length or diameter is outside the range set in the settings (**Test common lengths**, **Test common diameters**), the app asks whether to **Keep value**, use the **Last value** or the **Nearest value**. This way, typing errors are noticed right away.

Multi quality A log that is cut into pieces of different grade or quality is recorded as multi quality: under **Multi Quality**, choose **Trunk part** or **Head part**. The pieces of a log have the same number. After a multi quality piece, the app suggests the matching counterpart with the same number and species for the next measurement.

5.2 Sectional measurement

For a sectional measurement, a pile is divided into sections of a fixed width. For each section, you measure the height at the front and at the back.

Pile data **Length (m)** of the logs, **Section Size (m)**, **Num Logs**, species, grade and quality.

Sections For each section the width (**Size (m)**), the **Height Front (cm)** and the **Height Back**

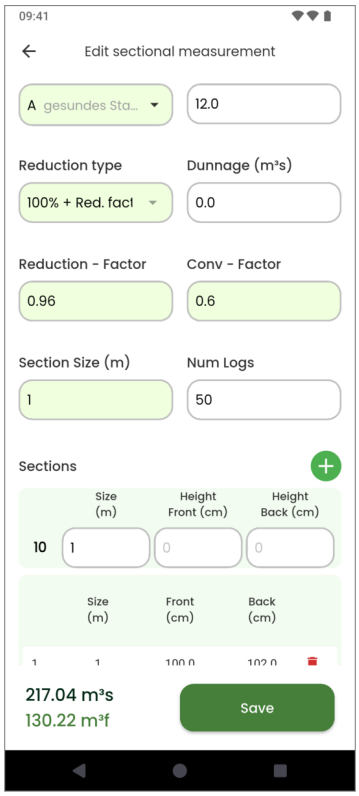

Figure 5.3: Sectional measurement with sections

(cm). You add new sections with the plus button. The width is preset with the section size; the last section can be narrower.

Dunnage (m³s) The volume of the dunnage, which is added to the stacked volume.

Conv - Factor The factor for converting stacked cubic meters (m³s) into solid cubic meters (m³f).

Reduction type and Reduction - Factor With the reduction factor, e.g. 0.96, the volume is reduced by the air in the pile, in one of two ways (see below).

The app computes the volume as follows:

1. The stacked volume is the sum over the sections of the mean height ((front + back) / 2) × width × length of the logs.
2. The dunnage volume is added, and the sum is converted into solid cubic meters with the conversion factor.
3. With **100% + Red. factor**, the result is divided by 100 % + (100 % − reduction factor), i.e. by 1.04 for 0.96. With **100% - Red. factor**, it is multiplied by the reduction factor, i.e. by 0.96 for 0.96.

5.3 Center strength measurement

For a center strength measurement, you measure a sample of logs and extrapolate it to the number of logs of the pile.

- Enter the **Length (m)** of the logs, species, grade, quality, and under **N Logs** the number of

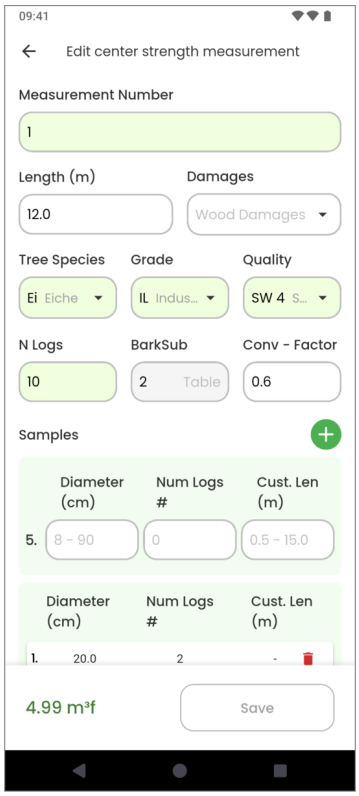

Figure 5.4: Center strength measurement

logs of the pile.

- Under **Samples**, enter the **Diameter (cm)** of each measured diameter and the **Num Logs** with this diameter, and add the sample with the plus button. If the length of a sample differs, enter the **Cust. Len (m)**. Below, the samples already recorded are listed; you delete them with the trash icon.
- The app computes the volume directly in solid cubic meters. The **Conv - Factor** is only stored with the measurement.
- The bark subtraction is determined as for trunk measurements.

5.4 Estimated measurement

If measuring isn't needed or not possible, you record the volume as an estimate.

- **Amount** and **Unit**: solid cubic meters, stacked cubic meters or pieces. For stacked cubic meters, the app converts the amount into solid cubic meters with the **Conv - Factor**.
- If **Single log amount** is turned on, the amount is given per log and multiplied by the number of logs.
- You can also enter the **Thickness Class** and the number of logs.

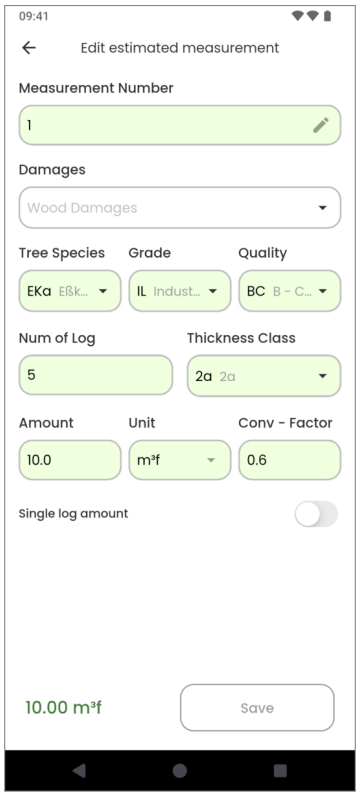

Figure 5.5: Estimated measurement

5.5 Bark subtraction and conversion

For trunk and center strength measurements, the app subtracts the bark subtraction (in cm) from the measured diameter. How it is determined is set by the **Bark subtraction source** of the timber list:

Table The subtraction depends on the species and the diameter according to the bark subtraction table, and is updated whenever the diameter changes. You find the table under **Settings** → **Show bark subtraction table**.

Fixed Value All measurements use the value of the setting **Bark subtraction**.

Individual You enter the subtraction yourself for each measurement.

With **Table** and **Fixed Value**, the app sets the subtraction automatically; it can't be changed in the measurement. New timber lists start with the table. If the table has no value for a species and diameter, the app points this out and uses 0.

The setting **Measure with bark** of the timber list is only recorded and doesn't change the subtraction.

6 Transports

With transports, you document the wood transported away from a pile. You reach them with the truck icon on the pile's edit screen. There you see all transports of the pile and add another one with **Add new transport**.

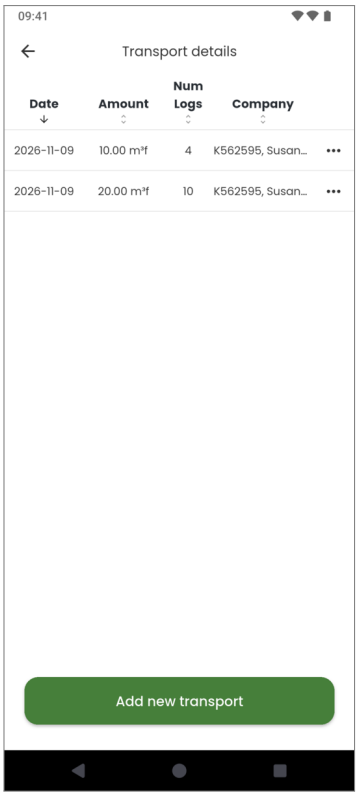

Figure 6.1: Transports of a pile

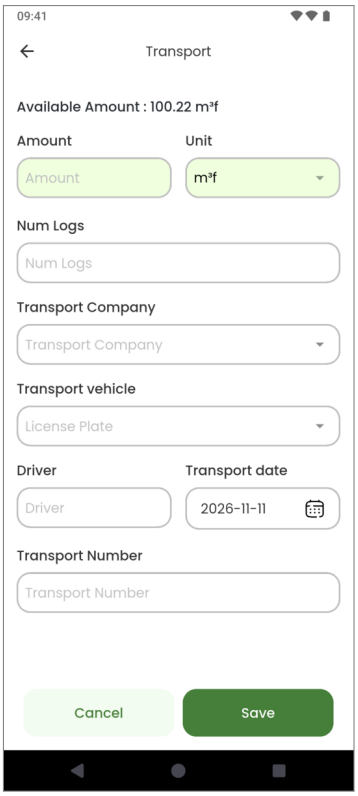

Figure 6.2: New transport

A transport has the following details:

Transport date The date of the transport.

Transport Company, **Transport vehicle**, **Driver** You choose the company and the vehicle from the master data.

Transport Number, **Delivery Bill Number** Optional. Whether the delivery bill and the **Type** are asked for is set in the settings.

Amount and Unit The volume transported in solid or stacked cubic meters, optionally with the number of logs. The app shows the volume still available.

Ratio If **Show Transport Ratio** is turned on, you can alternatively enter the volume as a share of the pile in percent.

6.1 Remaining volume

The remaining volume of a pile is its volume minus all transports. If **Show remaining volume** is turned on, the app shows it in brackets after the volume in the pile table. In the list of timber lists and in the pile list, you can filter by remaining volume.

When a pile has been transported completely, mark it as **Fully transported** on its edit screen. The mark is synchronized with timberNet, but doesn't change the computed remaining volume. If wood is actually left behind, you can split off the rest as a separate pile (see chapter 7).

7 Splitting piles

Sometimes part of a pile is left behind during a transport, e.g. if a measured pile of 24 m³f is to be transported, but the truck only takes 22 m³f. You can split off the remaining 2 m³f as a separate pile. The original pile keeps its measurements, but the volume split off is subtracted from its volume. The total of the timber list stays the same.

7.1 Splitting a pile

Choose **Split pile** in the pile's menu, or tap **Split pile** on the pile's edit screen.

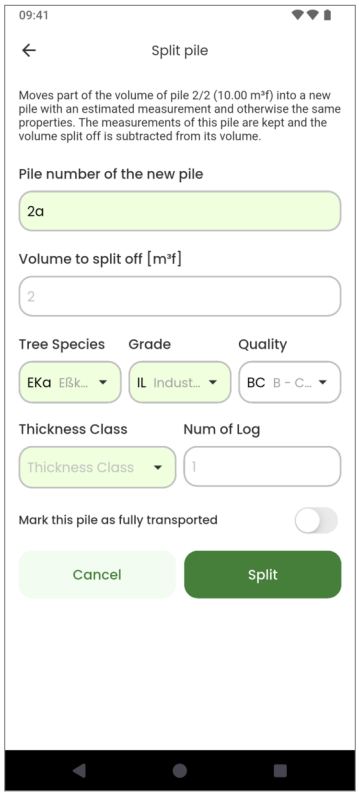

Figure 7.1: Splitting a pile

Pile number of the new pile The app suggests the pile's number with the next free letter, e.g. 12a.

Volume to split off The volume in solid cubic meters that is moved into the new pile.

Species, grade, quality, thickness class, number of logs For the estimated measurement of the new pile. The app suggests the assortment with the largest share, the thickness class of the mean diameter and the proportional number of logs.

Mark this pile as fully transported Useful if the rest of the original pile has been transported.

Split creates the new pile with an estimated measurement. It takes over all other details of the original pile, such as lot, location, buyer and color, but no images and transports.

7.2 Changing or undoing a split

A pile can be split once. After that, its menu shows **Edit split**. Here, or with **Change volume split off** on the edit screen, you change the volume split off. The estimated measurement of the split-off pile is adjusted as long as it is its only measurement.

To undo the split, set the volume split off to 0, or delete the split-off pile. In both cases, the original pile gets its full volume back.

On the edit screen, the app shows the measured volume and the volume split off for the original pile, and for the split-off pile which pile it was split off from. In the Excel and PDF exports, the volume split off appears as a separate row with a negative volume, so that the totals are correct.

8 Map

8.1 Pile locations

The map icon on the home screen shows the locations of all piles on a map, the map icon in a timber list only those of the piles of this timber list. Filters you set also apply to the map. With the search, you find places on the map; the location icon shows your own location.

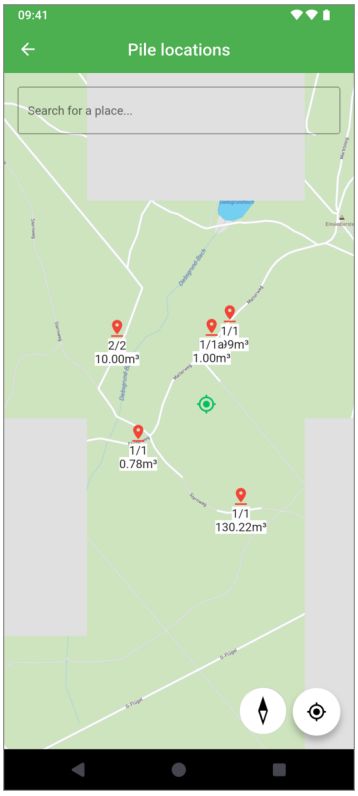

Figure 8.1: Pile locations on the map

Each pile is labeled with lot/pile and volume, and with the remaining volume if the setting **Show remaining volume** is turned on. Tapping a pile opens it for editing, double-tapping opens its timber list.

8.2 Offline map

So that you can choose locations on the map without a network, you download map areas in advance: **Settings** → **Offline Map**. You have two options:

Circular Mark a center and choose a radius of 1 to 10 km.

Rectangular Mark the four corners of the area.

Then tap the download button. Preferably download maps over Wi-Fi, since larger areas need a lot of data.

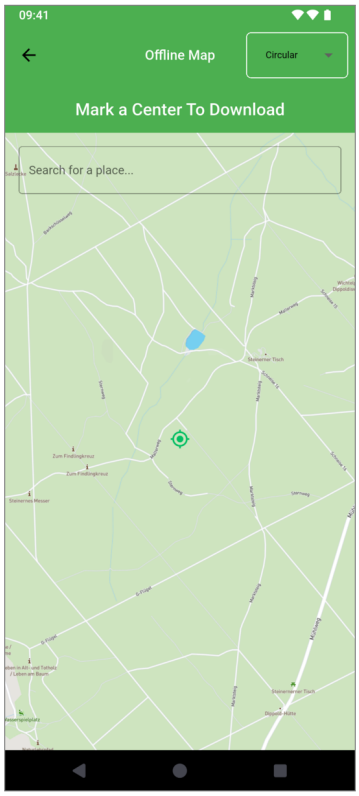

Figure 8.2: Downloading an offline map

9 Export and backup

9.1 Exporting timber lists and piles

You can export timber lists and piles as a file and share them, e.g. by e-mail:

- The download icon on the home screen exports all timber lists shown. Filters you set are taken into account.
- The download icon in a timber list exports this timber list.
- The download icon in the pile list exports the piles shown. If filters are set, the app asks whether to export the **Complete piles** or only the **Matching measurements**.

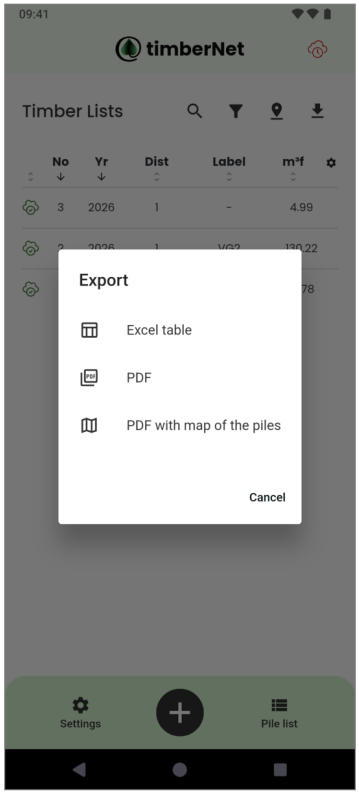

Figure 9.1: Choosing the export format

You can choose these formats:

Excel table All measurements with their details and totals, for further processing.

PDF An overview ready for printing.

PDF with map of the piles Also with a map of the pile locations. This needs an internet connection.

If **Show export button** is turned off in the settings, these download icons are hidden.

9.2 Backup

Under **Settings** → **Data**, you find:

Save backup Saves all data in a file. You choose whether to back up the local app data or the current data from the server. This only makes a difference if there are changes that aren't synchronized yet.

Import backup Restores data from a backup.

Reset Local Database Deletes all data on the device. Synchronized data is then loaded from the server again.

Note

An import replaces *all* local data. Changes that aren't synchronized yet are lost. The same applies to resetting the local database.

10 Synchronization

The app stores all data on the device and synchronizes it with the server. This way, it is backed up, available in timberNet and up to date on all your devices.

10.1 Automatic and manual

If **Sync with server periodically** is turned on, the app uploads changes by itself as soon as there is an internet connection. You can also start the synchronization yourself: by tapping the sync icon at the top right of the home screen, or by pulling down the list of timber lists. The icon also shows whether all data is synchronized. The column **Stat** shows this for each timber list.

If **Sync master data on start-up** is turned on, the app also reloads the master data when it starts.

10.2 Conflicts

If the same timber list was changed on the device and at the same time on the server, e.g. in timberNet or on another device, the app can't merge the changes automatically. It then asks which data should apply:

Replace local data The data from the server is taken over, the changes on the device are lost.

Replace server data The data of the device is uploaded to the server, the changes on the server are lost.

The app asks the same for its settings, which are synchronized as well.

Tip

If the automatic synchronization fails, the app reports **Auto-Sync failed**. Then start the synchronization by hand to get the options.

11 Settings

You open the settings from the bar at the bottom of the home screen. They are synchronized with your account and thus apply on all your devices.

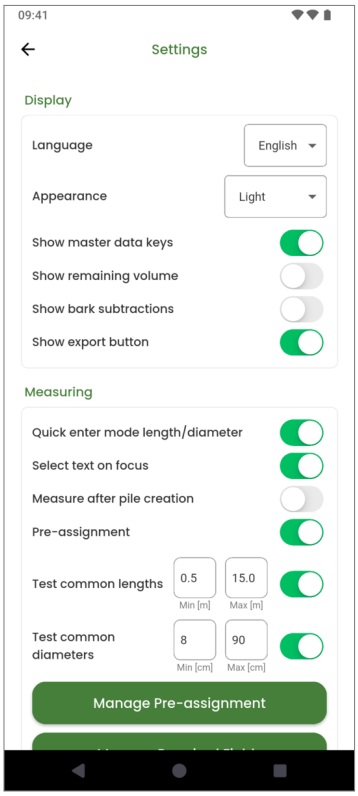

Figure 11.1: Settings

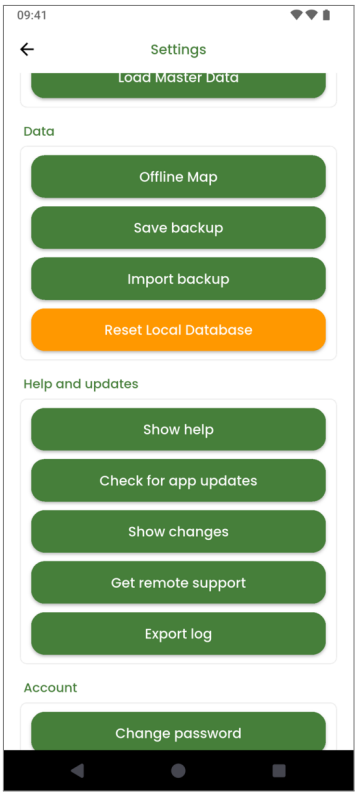

Figure 11.2: More settings

11.1 Display

Appearance Light, dark or like the system.

Show master data keys Also shows the keys of the master data in selection lists, e.g. the codes of the tree species.

Show remaining volume Shows the volume not yet transported in the lists (see chapter 6).

Show bark subtractions Shows the bark subtraction used in measurements.

Show export button Shows or hides the export icons.

11.2 Measuring

Quick enter mode length/diameter Moves from length to diameter automatically in trunk measurements (see section 5.1).

Select text on focus Selects the content of a field when you tap into it, so that you can overwrite it directly.

Measure after pile creation Opens the first measurement of a pile right after creating it.

Pre-assignment Turns the pre-assignment of fields on or off.

Test common lengths, **Test common diameters** The range outside of which the app asks back in trunk measurements.

Auto Measurement Num Whether and how the number of new measurements is incremented.

11.2.1 Pre-assignment and required fields

With **Manage Pre-assignment**, you set values that new timber lists, piles, transports and measurements of each measurement method are prefilled with, e.g. a tree species you use often. With **Manage Required Fields**, you set which fields must be filled in before saving.

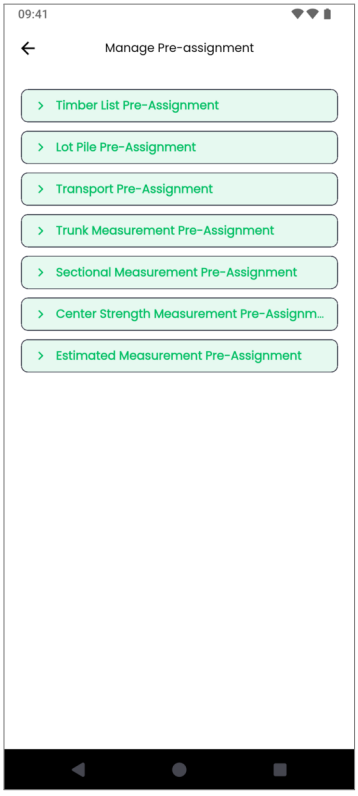

Figure 11.3: Managing the pre-assignment

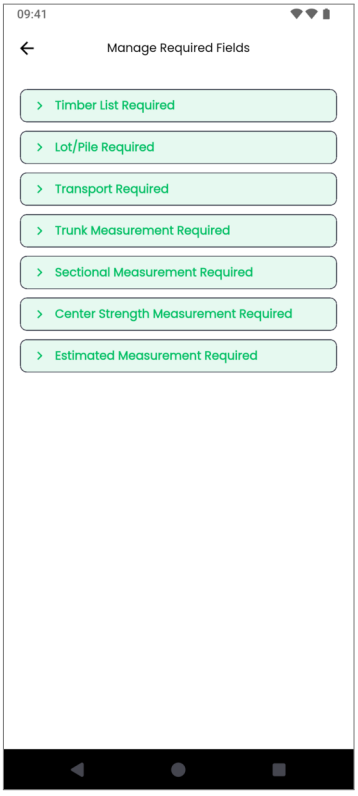

Figure 11.4: Managing required fields

11.3 Default values

Pile reference Whether the pile number of new piles stays empty (**Empty**), is incremented per timber list (**Increment per timber list**) or per year (**Increment per year**).

Reduction type The reduction type suggested for sectional measurements.

Bark subtraction The fixed bark subtraction in cm.

Conversion factor The factor suggested for converting stacked cubic meters into solid cubic meters.

Show bark subtraction table Shows the bark subtractions by tree species and diameter.

11.4 Transports

Show Transport Ratio, **Show Transport Type** and **Show Transport Bill Number** set which fields are shown when recording transports (see chapter 6).

11.5 Synchronization and data

Here you turn the automatic synchronization on and off and reload the master data (see chapter 10). Under **Data**, you download offline maps (see section 8.2), back up and import your data (see chapter 9), and reset the local database.

11.6 Help and updates

Show help Opens this manual on the website, in the app's language.

Check for app updates Checks whether a newer version is available in the store.

Show changes Shows what's new in the app versions.

Get remote support Opens the remote support app RustDesk, with which support can see your screen and operate the app after you confirm. If RustDesk isn't installed yet, the app offers the download. Only use remote support when support asks you to.

Export log Exports a log of the app, e.g. to send it to support, which helps them find errors.

11.7 Account

Here you see your username and your license (**Free** or **Pro**). You can buy a license, change your password and sign out.

12 Help and contact

You also find this manual in the app under **Settings** → **Show help**.

If you have questions or problems, the easiest way to reach us is by e-mail to support@kazmos.de. Please describe as precisely as possible what you did and what happened. The app version (under **Settings** → **Show changes**) and, if needed, a log (**Settings** → **Export log**) are helpful.

If you would like to delete your user account, please also write to support@kazmos.de.

You find more information at `https://www.timbernet-mobile.de/en/`.