

topoXpress iOS® guide

Follow this guide to get familiar with the integrated user interaction features, location source and data transfer options of topoXpress on iOS®.



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How to interact with topoXpress using Touch gestures on iOS®

topoXpress was desined for touch screens, therefore the user interface elements are providing an ergonomic experience on iOS®.

● Use **single taps** to push buttons, place vertexes or open and edit textfields.

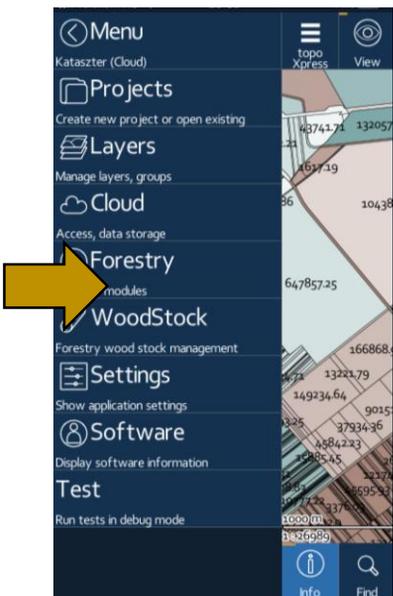
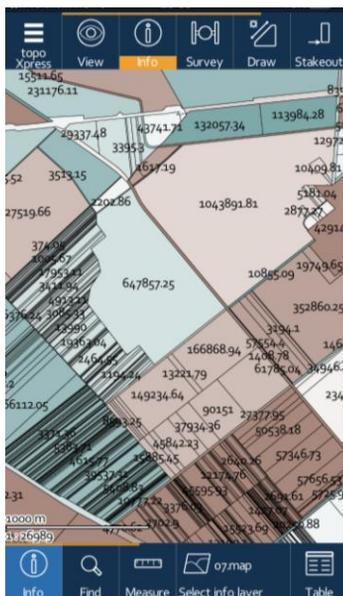
◎ Use **touch and hold** on the zoom in and zoom out buttons.

↔ Use **pan** to move the map view or edit vertexes of a geometric feature.

↕ Use **scroll** to navigate in the menu or in lists.

↻ Use **pinch** to zoom in or out on the map view.

→ Use **edge swipe** on the left or right to show or hide panels.



Use taps, scroll on the panels and pan or pinch on the map view to navigate

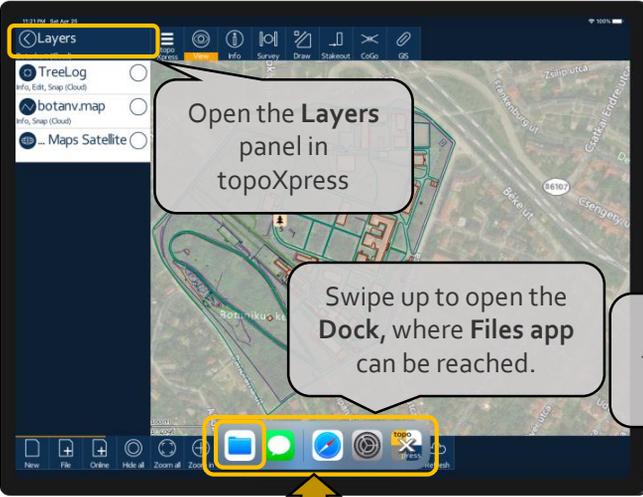
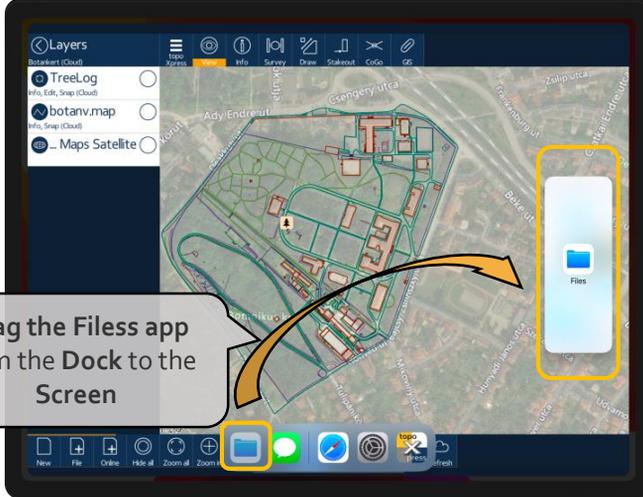
Swipe from the left edge to show/hide the left panel

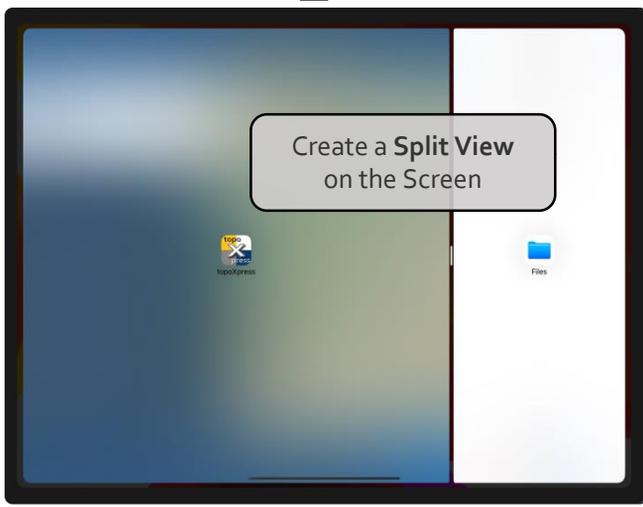
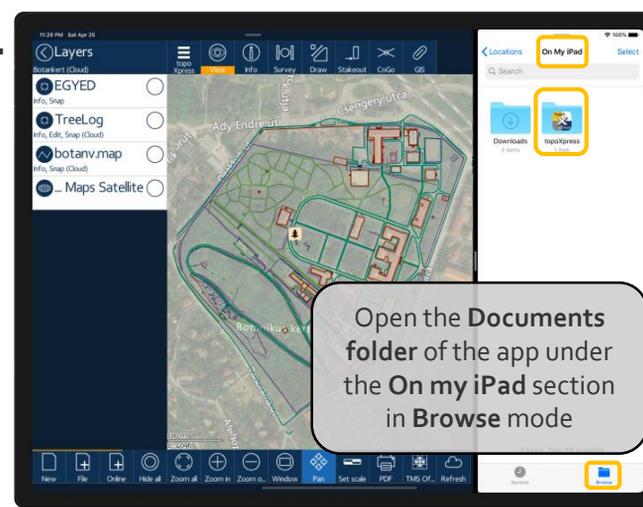
Swipe from the right edge to show/hide the right panel

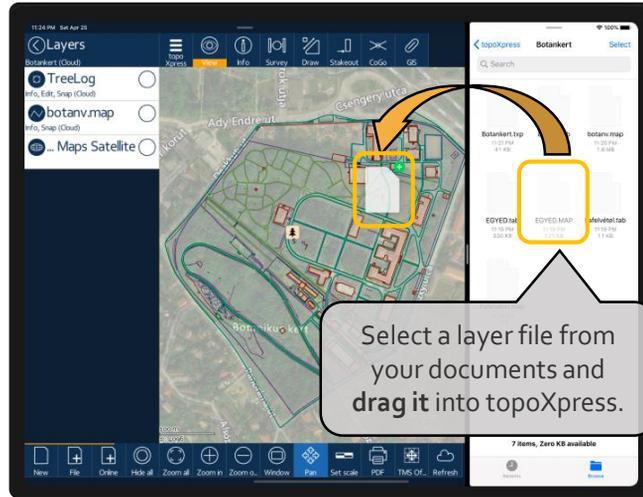
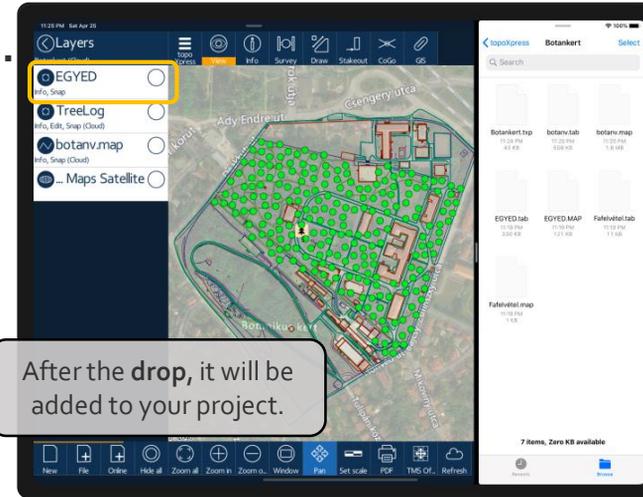


How to drag and drop layers from File app into topoXpress on iPadOS®

The iOS/iPadOS® edition of topoXpress supports drag and drop gesture for adding new layers to an open project from the Documents folder of topoXpress in the Files app.

1.  

3.  

5.  

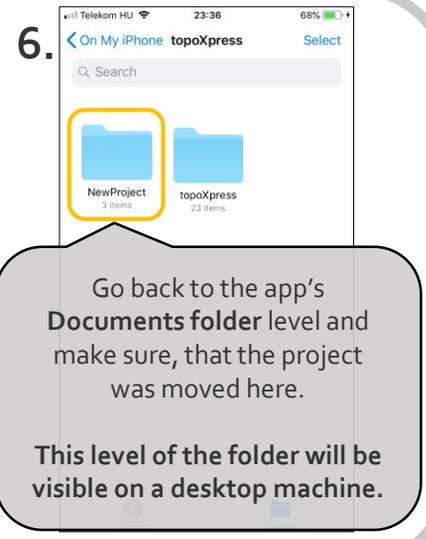
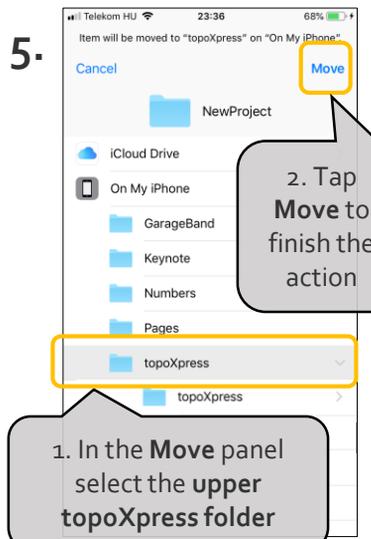
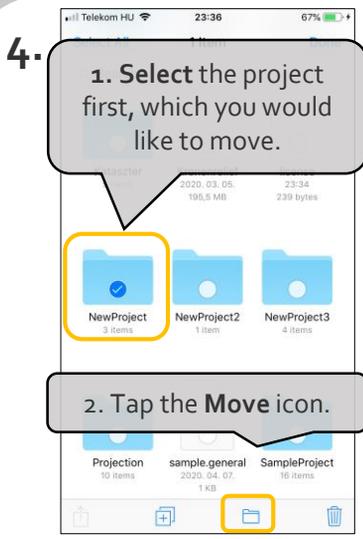
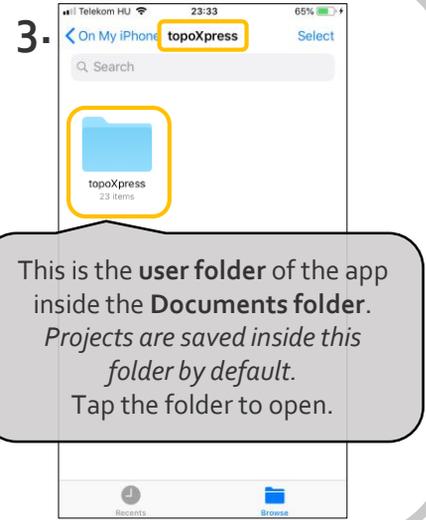
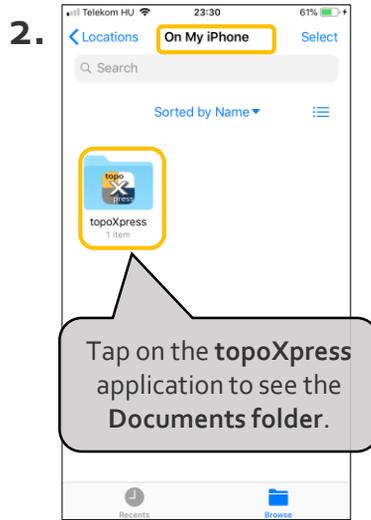
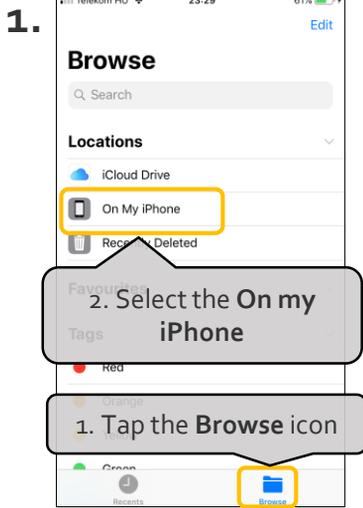
Note: This feature is only active in topoXpress when the Layers menu is open!



How to prepare topoXpress projects or files to be copied to a Mac® or PC from an iOS® device

All the apps on iOS® are running inside a sandbox, which means there is no shared Documents folder available. Each app, like **topoXpress** has it's own dedicated **Documents folder**, where the user data can be stored (e.g. *Projects, raster images, ...*). This folder can be reached from either the **iOS Files app** or from **Finder (or iTunes on PC)** when the iOS device is connected to the computer. **On a desktop computer, only the top level of the Documents folder is accessible of the app!**

If you want to move data from the user folder to a desktop machine, **do these preparation steps in the iOS® Files app:**



Note: topoXpress offers a cloud service for subscribed users, which can transfer projects between any supported platform of the app through the internet on secured channels, which makes data transfer more easier and safer.

Minimum system requirement for topoXpress is iOS 12.4
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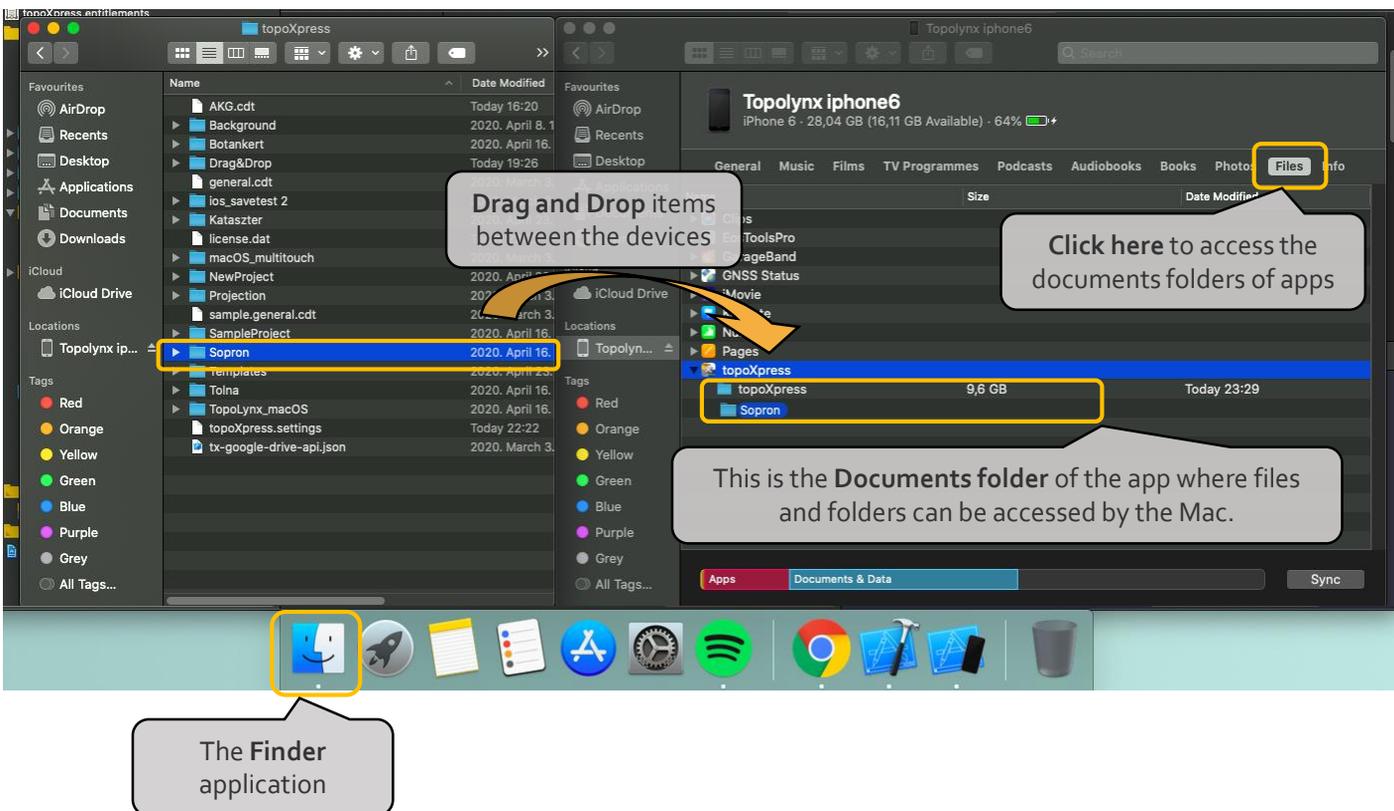
How to transfer topoXpress projects or files between your iOS® device and a Mac® computer

To transfer files or projects between an iOS® device and a Mac® computer directly, you can use the **Finder**.

- If you would like to move files or project from your iOS® device to the desktop machine, read the guide on how to prepare topoXpress projects on iOS® to be moved to a desktop machine.
- If you would like to move files or projects from your Mac® to the iOS® device no additional preparation steps are required.

On macOS® Catalina follow these instructions:

1. Connect your iOS® device to your computer and open two windows of Finder.
2. In one Finder window select the iOS® device and click on the **Files**
3. In the other window open the path where you transfer the data on your Mac®.
4. Create a split view to **drag and drop** project folders or files from one device to another.



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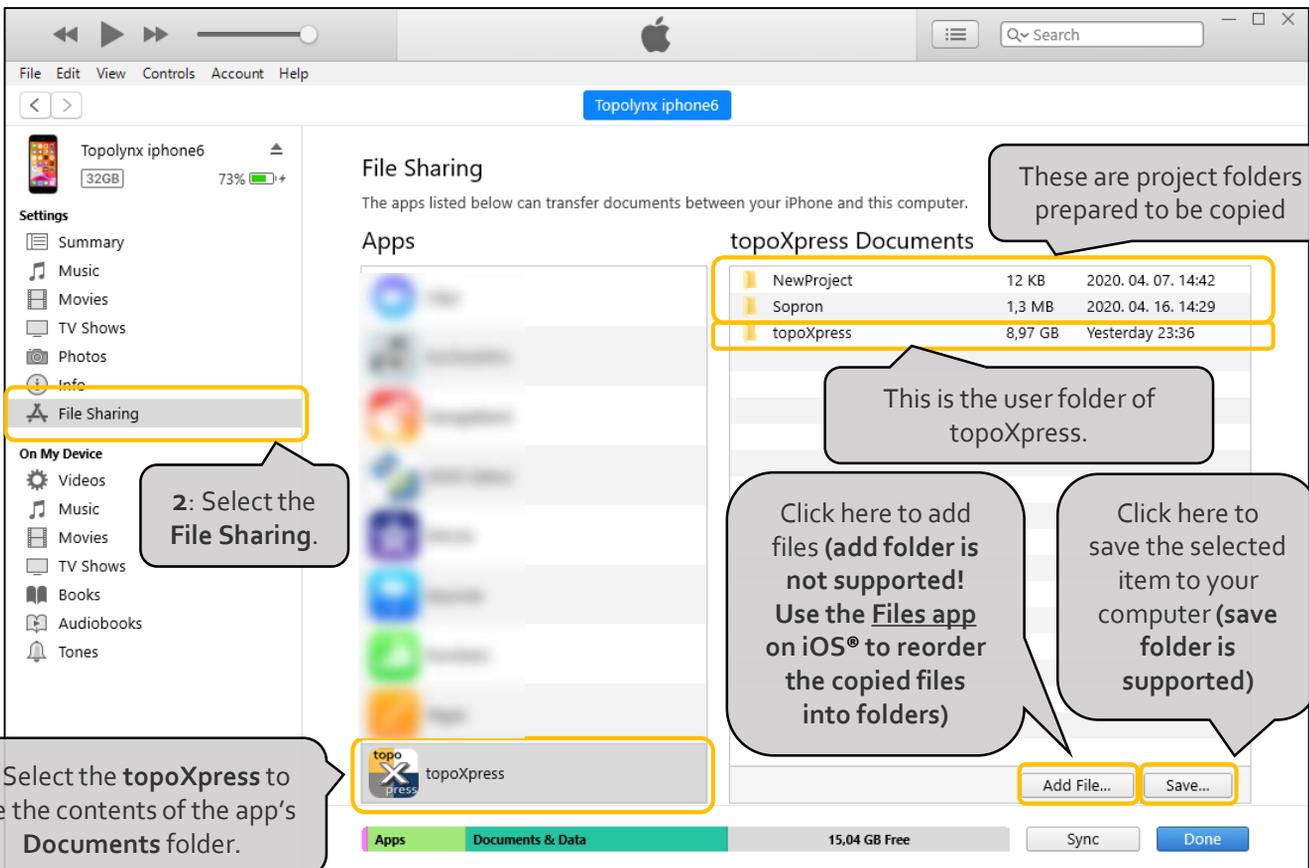
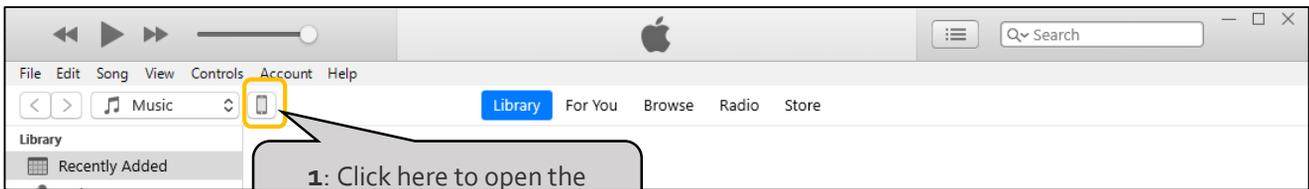


How to transfer topoXpress projects or files between your iOS® device and a Windows® computer

To transfer files or projects between an iOS® device and a Windows® machine directly, you need to use the Apple's [iTunes software](#). iTunes is available from the **Microsoft Store** for Windows®, which is the official marketplace for Windows® apps.

- If you want to move files or projects from an iOS® device to the desktop machine, read the guide on how to prepare topoXpress projects on iOS® to be moved to a desktop machine.
- If you want to move files or projects from your desktop machine to the iOS® device no additional preparation steps are required.

Connect your iOS® device to your computer and open the iTunes software:



Note: If you would like to add complete project folders to the topoXpress app on iOS®, use either a Mac® computer or one of the integrated Cloud service inside the app.

Minimum system requirement for topoXpress is iOS 12.4

iOS and Mac is a trademark of Apple Inc.



How to get cm accuracy location data in topoXpress on iOS®

topoXpress has a GNSS Survey panel which can be used with the **built in GNSS** or with **external GNSS devices** to survey points, lines or polygons with multiple options. The accuracy of the built in GNSS on an iOS® device is can range between 1-10 meter depending on the environment. To get more accurate location data with even cm accuracy, an external GNSS receiver need to be used.

There are two way to use an external GNSS receiver with topoXpress on iOS. Either way you need to use the receiver manufacturer's app to set up the location provider.

- One option to get detailed location data is trough a **TCP connection**. See the **guide on How to receive GNSS data through TCP port**. This way the sky plot and detailed GNSS accuracy metrics are visible on the GNSS Survey panel.
- Another option is to use an **MFi certified GNSS receiver with the manufacturer's app**, which can stream location data through the **Core Location service**, which is accessible for all the apps. If this option is turned on in the manufacturer's app, use the **Built in GNSS location source in topoXpress**, and you will receive the location data from the external receiver.

Follow these steps in topoXpress to set up the Core Location service option :

- **First, follow the guide on the manufacturers website to set up an MFi certified GNSS receiver to stream location through the Core Location service in iOS.**

1. Select the **Survey tools**.

1. Make sure the **Built in GNSS** displayed here.

2. Click on the **Connect** button.

If label above is **not Built in GNSS** tap the **Setting** button.

If label above is **Built in GNSS** tap the **Connect** button and you are ready!

If the Location source in the **Settings** on the **General** tab is other than **Built in GNSS**, scroll down the options and Select the **Location source** to be the **build in GNSS**.

After selecting the Location source go back to the **Sats** menu and tap **Connect**.

Note: If you are using the **Built in GNSS** option in topoXpress on iOS® only the position and HRMS/VRMS data will be displayed. The PDOP value is set to constant 1.0. No Sky plot data and further accuracy metrics will be displayed even if it is used with a high accuracy GNSS receiver through the Core Location service! Use TCP connection to get detailed information from the location source and accuracy.



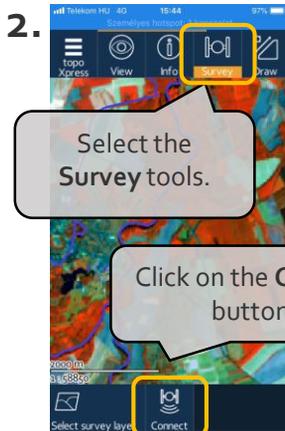
How to receive GNSS data through TCP port in topoXpress on iOS®

The iOS® edition of topoXpress can connect to TCP servers in order to get location data from external GNSS receivers. The TCP server must be set up in the antenna manufacturer's application prior to the start of topoXpress. The TCP server should stream the location data in NMEA-0183 format.

Follow these steps to set up topoXpress for receiving NMEA stream from a TCP port:



1. Click on the **topoXpress** icon to launch the app.



2. Select the **Survey** tools.

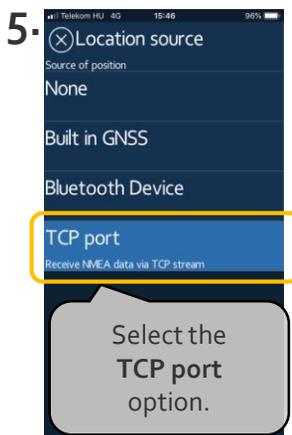
Click on the **Connect** button.



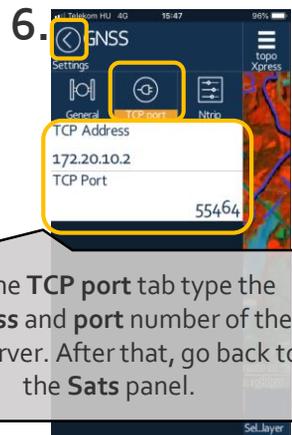
3. Click on the **Setting** button.



4. Scroll down the options on the **General** tab and select the **Location source**.



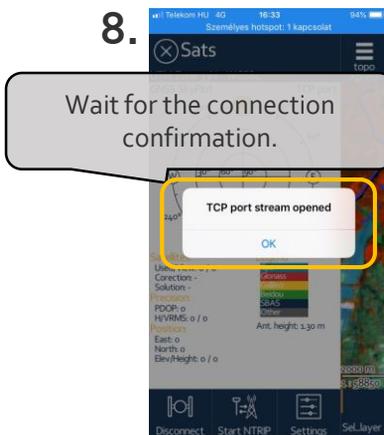
5. Select the **TCP port** option.



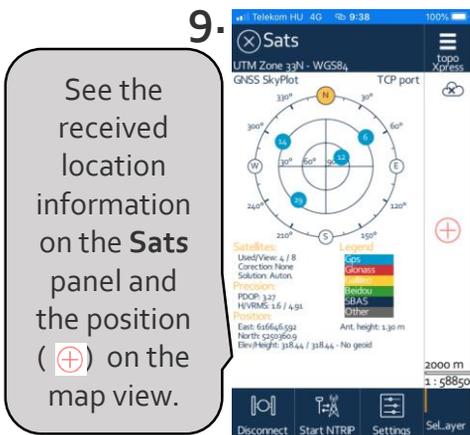
6. On the **TCP port** tab type the **address** and **port** number of the TCP server. After that, go back to the **Sats** panel.



7. Click on the **Connect** button.



8. Wait for the connection confirmation.



9. See the received location information on the **Sats** panel and the position (⊕) on the map view.



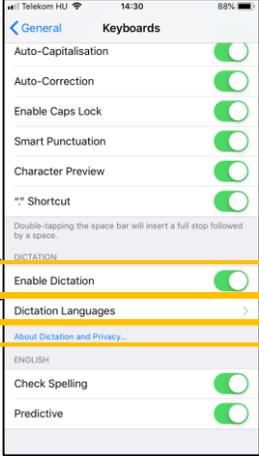
How to use Dictation in topoXpress on iOS®

You can use dictation instead of your keyboard to enter text in topoXpress. On iPhone 6s or later, and iPad, you can use dictation without being connected to the Internet. Earlier models of iPhone and iPad require an Internet connection to use Dictation. Follow this guide to set up dictation for topoXpress:

Open the system **Settings**. Go to the **General** section. Find the **Keyboard** section.

Make sure that **Enable Dictation** is On:

Select **Dictation Languages**:



Make sure that your preferred language is selected.

Don't forget to study the Privacy Policy of the Dictation function!



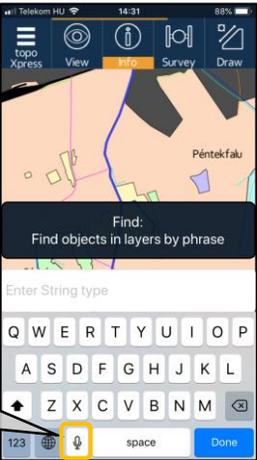
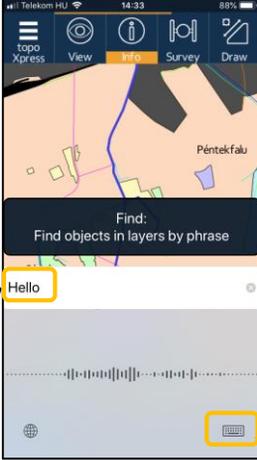
Open **topoXpress** and make sure that *Use iOS keyboard* is **enabled** under the **Settings/System** menu.

Find any text input field, which will show the system keyboard.

Tap the to start the Dictation.

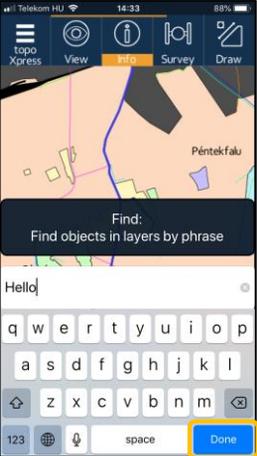
Say *Hello* and the text will show up.

Tap here to go back to the keyboard.

Once you are happy with the text tap **Done**.

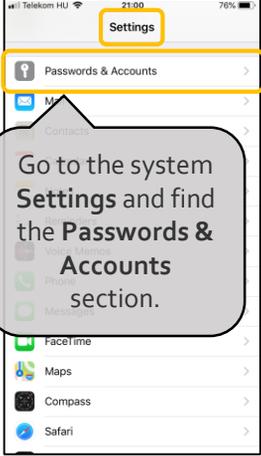
Visit the official support site of Apple to learn more on Dictation: <https://support.apple.com/en-us/HT208343>





How to use AutoFill for your topoXpress password on iOS®

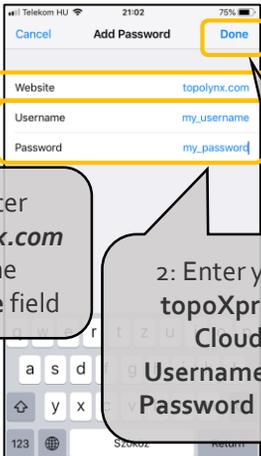
iOS® provides an excellent option to store your passwords in a safe keychain, which can only be accessed through authorization (e.g. Touch ID). The keychain supports AutoFill for password fields, which means no more typing required for complicated passwords! Follow this guide to add your topoXpress Cloud password to the system's keychain:

1.  Go to the system **Settings** and find the **Passwords & Accounts** section.

2.  Tap the **Website & App Passwords**

1. Turn On the **AutoFill** option:

3.  Tap on the **+** to add a new password.

4.  1: Enter **topolynx.com** to the **Website** field

2: Enter your **topoXpress Cloud Username** and **Password** here.

3: Tap **Done** to finish.

5.  1. Go to **topoXpress Cloud** menu / **Access** tab and enter your username at **User**. (no autofill available here)

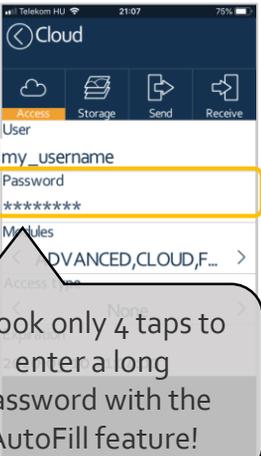
2. Tap the **Password** field.

6.  Tap here to open the keychain.

7.  Find the **topolynx.com** password and select it with a single tap.

8.  The selected password will appear in the field with encryption

Tap **Done** to finish the password input.

9.  It took only 4 taps to enter a long password with the AutoFill feature!

Minimum system requirement for topoXpress is iOS 12.4

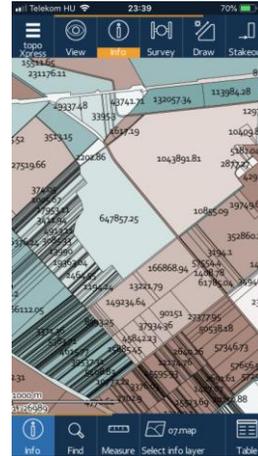
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How to close topoXpress on iOS®

The iOS® edition of topoXpress has no **Exit button** in the main menu. Use the standard routine, just like on all the other apps to close. On the close event, all the edits and modification will be automatically saved along with the active hardware connections.

You can exit topoXpress any time. Please note, that only confirmed edits will be saved. E.g. If you are in the middle of a vertex editing of a polygon, the edits of the current geometry might not be saved.



On iOS® device without Home button, swipe up from the bottom of the screen and pause slightly in the middle of the screen.

On other iOS® devices, double-click the Home button to send the app in the background.



Once the app went into the background, swipe up the app to close.

