

OCAD Subscription

Newcastle Orienteering Club is using OCAD Subscription which allows more advanced mapping and course setting options. The licences are managed by the Mapping Officer (Geoff Todkill) and require internet installation and activation. It also includes the option to use OCAD Sketch on a mobile device (phone or tablet).

OCAD Sketch App

(-Geoff Todkill; Jan, 2025)

The OCAD Sketch App complements the desktop version of OCAD. It is designed for mapping in the field – both for new mapping as well as revisions, feedback from course planners or vetters.

For mapping, setting or vetting, the GPS position of the OCAD Sketch App provides additional security when checking the control locations in the terrain or when setting controls for a training or a competition.

The OCAD Sketch App only runs on Android and iOS devices. It can be downloaded and used for free from the App Store (iOS) or Google Play (Android).

The OCAD Desktop is optimized for desktop PC's. The OCAD Sketch App is designed specifically for mobile fieldwork and therefore the Sketch module can be used more efficiently than with the desktop version.

The app can also be used with fingers. However, a capacitive pen is beneficial for precise drawing.

Drawing pen, different colours and line widths and eraser enable fast and ergonomic sketching. GPS routes can be tracked and the compass can be used to adjust the map orientation. Map projects are transferred from desktop version of OCAD to the OCAD Sketch App and synchronized back after mapping. The download and use of the app is free of charge. The OCAD Sketch App is available in the Apple App Store (iOS) and Google Play Store (Android). Search for OCAD Sketch.

More comprehensive notes including notes on using the app can be found at

https://www.ocad.com/wiki/ocad/en/index.php?title=OCAD_Sketch_App

A detailed explanation video on YouTube in English: <https://youtu.be/QcKxjnAuuVY>



1.OCAD Sketch App Data Exchange

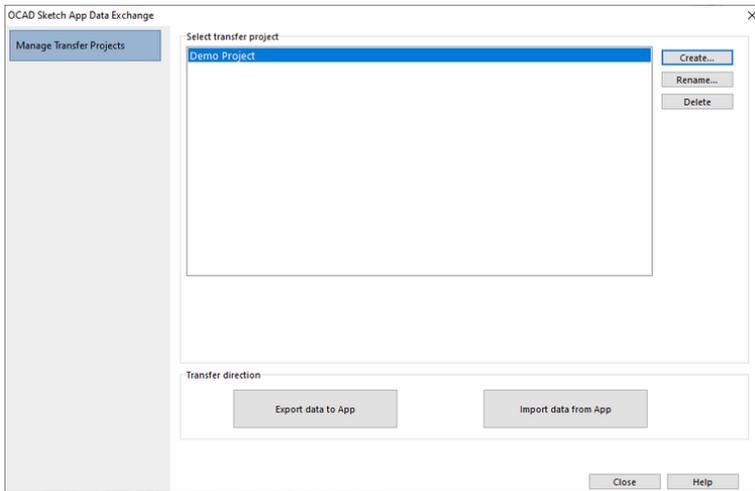
Use the OCAD Sketch App Data Exchange tool in OCAD Desktop to export data to or import data from the OCAD Sketch App. A file must be open for the function to be selected.

Export data to App

Open the OCAD Sketch App Data Exchange tool from the File menu.

You will be notified that the file will be saved. OK.

Manage Transfer Projects



Select Transfer project

- **Create** a new transfer project. Enter a project name. The project name will be displayed in the OCAD Sketch App.
- **Rename** an existing transfer project.
- **Delete** an existing transfer project.

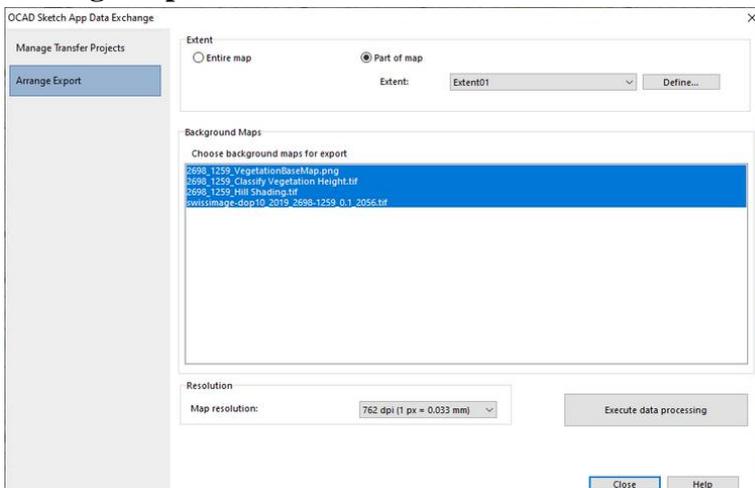
Transfer direction

Select a transfer project in the list above and choose the transfer direction. If you select a transfer project for which data has already been uploaded, its data will be overwritten.

Export data to App: Use this option if you like to export your map and background maps to the app for field work. This option is described below.

Import data from App: Use this option if you like to import sketches from field work into OCAD Desktop, e.g. for final drawing. Read more about this step in the Import data from App Section.

Arrange Export



Extent

- **Entire map:** Includes the extent of the entire map and all its background maps.
- **Part of map:** Choose a predefined extent or define a new one. You can define a new extent by clicking on **Define** or open the **Setup Part of Map** dialog and save an extent there.

Background Maps

- Choose the background maps that shall be exported to the OCAD Sketch App. Use SHIFT key to select multiple files. Use CTRL key to unselect a selected file.

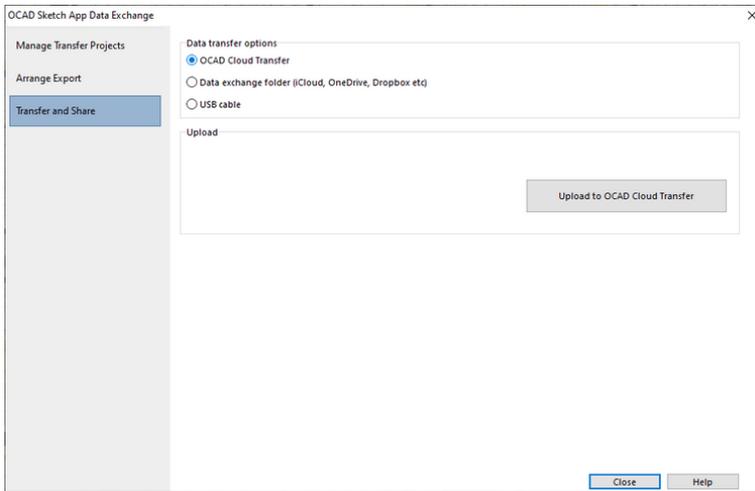
Resolution

- **Best to simply use the default settings.**

Execute data processing

- Click **Execute data processing** button to prepare the data for export.

Transfer and Share



Choose one of the **Data transfer options**. I find the OCAD Cloud Transfer best to use.

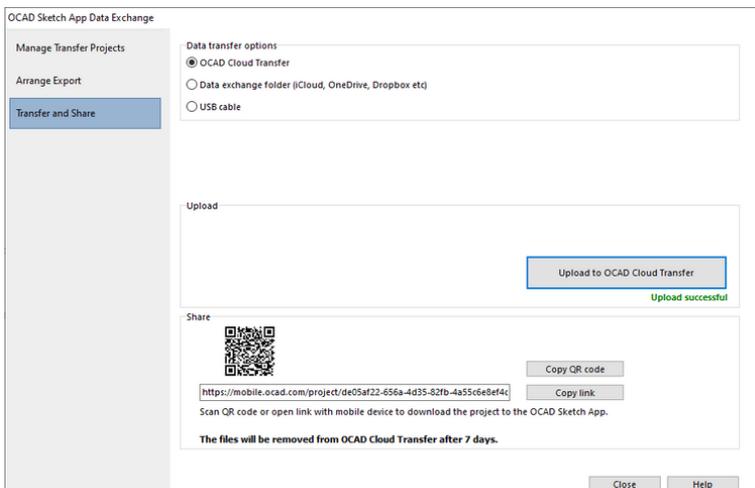
OCAD Cloud Transfer

The project is uploaded to the OCAD Cloud Transfer which creates a QR code and a link to download the project to your mobile device.

- Choose this option and click **Upload to OCAD Cloud Transfer**.
- A green hint shows you if the upload was successful and the QR code and link is shown in the Share section.
- Scan the image with your mobile device (Photo or QR Scan App) and confirm to open the link. The project will be loaded automatically into the OCAD Sketch App.

NB. The files will be removed from the OCAD Cloud Transfer after 7 days. Once you downloaded the data to your mobile device, the data will remain there even if the project is removed from the OCAD Cloud Transfer.

Close the dialog.



Import Data from App

Open the **OCAD Sketch App Data Transfer** tool from the File menu.

Manage Transfer Projects

- **Select transfer project:** as you like to import data from the OCAD Sketch App, you need to select the project that was used for the export.
- **Transfer direction:** Choose **Import data from App** to import sketches from field work into OCAD Desktop, e.g. for final drawing.

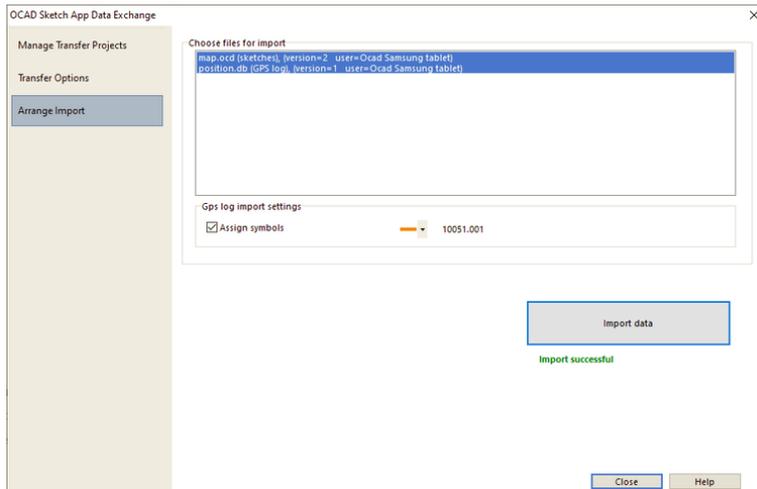
Transfer Options

Choose one of the **Data transfer options**:

- **OCAD Cloud Transfer:** Choose this option if the project was sent from OCAD Sketch App to OCAD Cloud Transfer after field work.

Click the **Get importable files** button to get a list of all importable files. The wizard jumps to the next step.

Arrange Import



Choose files for import

Choose the files you want to import. Use Shift key to select multiple files.

Click **Import data** to import the file(s).

All sketches added or modified in the app are imported to the OCAD Sketch layer. A green hint shows you if the import was successful.

- **GPS log import settings:** Optional: Assign a line symbol to the GPS log track.
 - Close the dialog.

2.Using OCAD Sketch

Open a project

Tap on a project item to open it.

If there is no project yet, then you must first load one or multiple map project onto the app. If you are a vetter, the course planner will send you the QR code (See OCAD Cloud Transfer, above)

NB. The first time you work with the app. you will be asked if OCAD Sketch App is allowed to retrieve the device location. Agree, if you want to work with internal GPS.

General Settings

- **Username:** Enter a username of 3 characters or more. This name does not have to be a real name but is merely used as an identification tag for the work that the user will do using the device.
- **Debug logs enabled:** Enable debug logs, which OCAD may need to reproduce errors.
- **Help:** Click the button to open OCAD Wiki.

Project Settings

- **Restore backup:** Option to restore a backup version of your project. Activate the Save backup versions checkbox in the Project Settings tab.
- **Send to OCAD Cloud Transfer:** Upload your project to the OCAD Cloud Transfer, so you can import the project later on in OCAD Desktop.
- **Delete from phone:** Delete the project from your mobile device.

Finger gestures

- 2 Fingers- Use 2 Finger gestures to Zoom, Pan and/or Rotate the map.
- 1 Finger- Use 1 Finger gestures with the tools from the bottom toolbar:
 - Pan / Draw Sketch / Erase Sketch
 - Double tap with 1 Finger to zoom in (only if the Pan tool is active)

Undo Redo (Draw/Erase)

 Undo the last draw/erase operation

 Redo the last draw/erase operation

Layers

 Show/hide/dim layers (map and background map)

 Change the order of background layer.

 Dim a background map. Slider to the left can make the background map appear transparent.

Settings (GPS, Compass, North lines...)

Show current position: Shows your current position based on your device GPS. Your project must be correctly georeferenced and you must be within the project extent to see your position. (Note, virtually all mobile phones have built in GPS while some tablets will require an external GPS to enable the position function).

- **Show position precision:** Shows the expected precision of your current position.
- **Log positions in project:** Logs your position to a gpx file, which can later be imported in OCAD Desktop. Only works when the device is awake.
- **Always allow background logging:** Will always log GPS position, even if app is running in the background. Note that this may also require allowing "Always" tracking in the Location settings on your device.
- **Show position tail:** Shows the position tail. Adjust the tail color and tail length if needed.
- **Only show today's tail:** Show only tail from points from today.
- **Eraser size:** Option to customize the eraser size.
- **Show zoom buttons:** Show/Hide the Zoom-In/Out buttons
- **Show compass:** Shows compass. Only available if your device has a build-in compass.
- **Show scale bar:** Shows a scale bar for better sense of distance.
- **Show north lines:** Shows north lines on the map. Adjust the Distance between north lines if needed.
- **Save backup versions:** Saves a backup of your project automatically according to the specified Backup interval.
- **Straighten lines:** If you stop drawing for 1 second and still press the on the display, the previous line segment(s) will be straightened. This option can be activated always, never or only for scales 0 - 1:5000 (sprint maps).

Project Management

 Close Project Closes your project.

Align North / Maximise

 If map view is rotated -> Reset map view rotation (north lines parallel to device screen).

 If map view is not rotated -> Show entire map.

Zoom

 Zoom in;  Zoom out. NB. You can also zoom in/ zoom out with 2 fingers gestures.

Position

 Single Tap: Centres map and indicates current position (1 x)

 Double Tap: Centre map to position (permanently).
NB. Centre map works only if **Show current position** is turned on.

Pan

 Pan the map with a pen or 1 finger gestures.

Compass

 Single Tap: Rotate map view to current magnetic north (1 x)

Draw Sketch

 Click on the Draw Sketch button. Now you can start sketching with the specified line color/width.

NB. All your drawing will be saved automatically. Once you are done with sketching, just close the project.

Choose Sketch Width / Colour

 Click on the Choose Sketch Width / Colour button if you like another colour or line width for sketching.

Erase Sketch

 Erase objects by running the eraser over them.

Start/Stop GPS Tracking

 The current colour/width is used. It is best to choose a line/colour combination that you recognise as the tracking.
A double tap creates a point feature (Start/Stop at same position)

Upload the sketches again

A number of visits to the terrain is usually necessary.

In the OCAD Sketch App you can open an existing project as you wish and continue mapping, and import it into OCAD Desktop when complete.

It is better to create a new transfer project for each visit to the terrain. This allows map updates to be completed while the Sketch work is fresh in your memory.