



Introduction

The aim of this document is to help Night Street League (NSL) planners/organisers to set up events using MapRun.

The Deeside Orienteering Club committee has decided to use the MapRun app for future NSL events. This will inevitably involve some initial set, which will be offset by the relative ease to create new future NSL events and improve runner satisfaction.

In essence there are two separate processes involved:

1. Creating a Map for printing; and
2. Setting up the map and course in MapRun.

Map

We currently have two types of maps being used for NSL. The planner has the choice of using either:

- An existing NSL map (drawn in OCAD); or
- Creating an Open Orienteering Map ([OOMap](https://oomap.dna-software.co.uk/#/new/streeto-LIDAR-5/8/-0.9000/51.8000/)).

<https://oomap.dna-software.co.uk/#/new/streeto-LIDAR-5/8/-0.9000/51.8000/>

The benefit of using an existing map means that we build on the work to create good quality maps, although this will require a little bit more work to set up MapRun. The Open Orienteering Map is fully integrated with MapRun, although the map quality can be poor and may need edit.

There are many options and features in MapRun and the Deeside Orienteering Club committee has decided, for consistency to mandate the following settings for our NSL events.

Deeside Settings:

- Proposed NSL Settings:
 - **Date Ranges:** From upload; to 12 months hence.
 - **PIN code:** No
 - **Event type:** Score
 - **Score Scheme:** QXX [*Control number rounded down to the nearest multiple of 10 & 30 points per minutes or part thereof*]
 - **Duration:** 40, 60 & 75 minutes [*three different courses to be set up with unique names using the same kmz and kml files*]
 - **Punch Tolerance (m):** 15m
 - **HITMO** [*Hey I think I missed one!*]: No
 - **Display present location:** No
 - **Display Track:** No
 - **Generate a result even if the User exits before the Finish;** No [*runners need to finish to get a result*]
 - **Automatically upload the results:** Yes

Map Quality

When we use an Open Orienteering Map the planner needs to undertake a site survey to ensure material mapping errors are corrected. Especially in the vicinity of planned control locations and associated route choice.

Where maps have been created in OCAD then these also need to be checked for new developments. Although it is anticipated that these maps will inherently be more accurate. For that reason, we are suggesting that for the 24/25 season we use existing maps. This will enable MapRun to be in.

Detailed guidance on how to set up a MapRun event is appended. If you have any questions, please get in touch.

Iain Bell
NSL Coordinator
August 2024

APPENDIX – MapRun Setup Detailed Guidance

MapRun Files

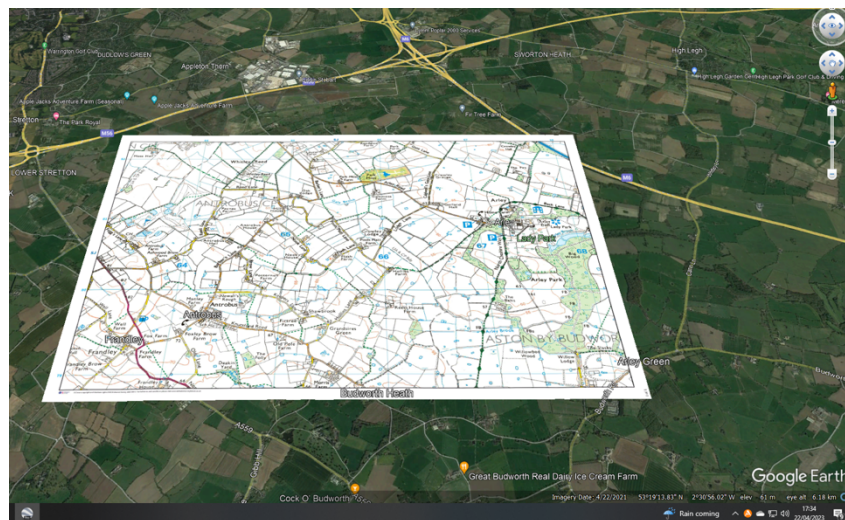
MapRun requires two sets of files, *kmz* map files and *kml* course files.

To create an event the club MapRun Administrator (Norman Hall) uploads the *kmz* and *kml* files to the MapRun website server.

1. Existing Map

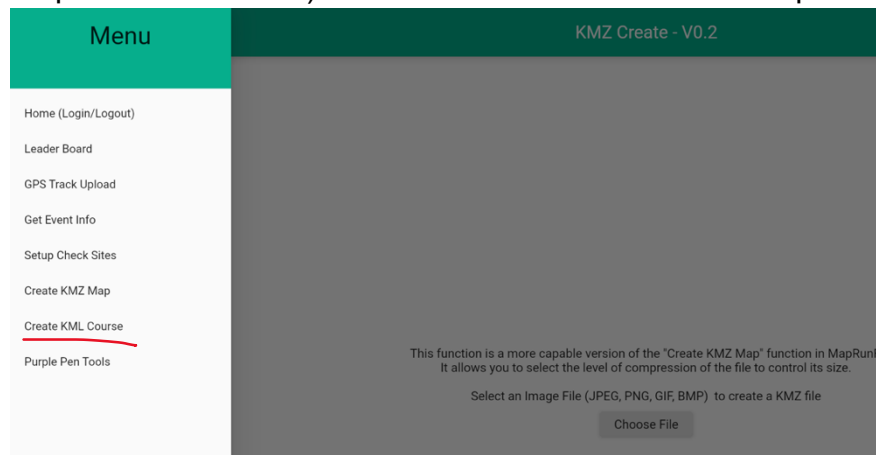
Create a KMZ Map File for the MapRun App

- **Step 1: Source your map.** There are existing NSL maps drawn in OCAD that can be used.
- **Step 2: Convert the file to a JPG at 150dpi.** If you use a higher quality MapRun may not work. (NB. This is just for MapRun. You can print the physical Map at a higher resolution.)
- **Step 3: Create a KMZ file of the map.** MapRun requires the maps it uses to be in *kmz* format. Go to the MapRun Console <https://console.maprun.net/#/> From the MapRun Console menu (three lines in top left-hand corner) select the 'Create KMZ Map' option.
 - a. 'Choose File' (the JPG from step 2 above) and confirm.
 - b. This opens a split screen of your map and google earth.
 - c. **Georeferencing:** You now need to geo-reference your map by setting two pins. Ideally these should be obvious locations in opposite corners of the map. You will need to navigate to your area from the default starting point (in Australia). When you have aligned the two circles (on the same place on both the map and google earth) in the right place click save pin1 and repeat for pin 2 (in the other corner of the map).
 - d. You can use the Opacity slider to test that you have the map aligned with Google Earth.
 - e. Save as a KMZ file.
 - f. Click on your KMZ file and it should now open in Google Earth and place the map in the right location.

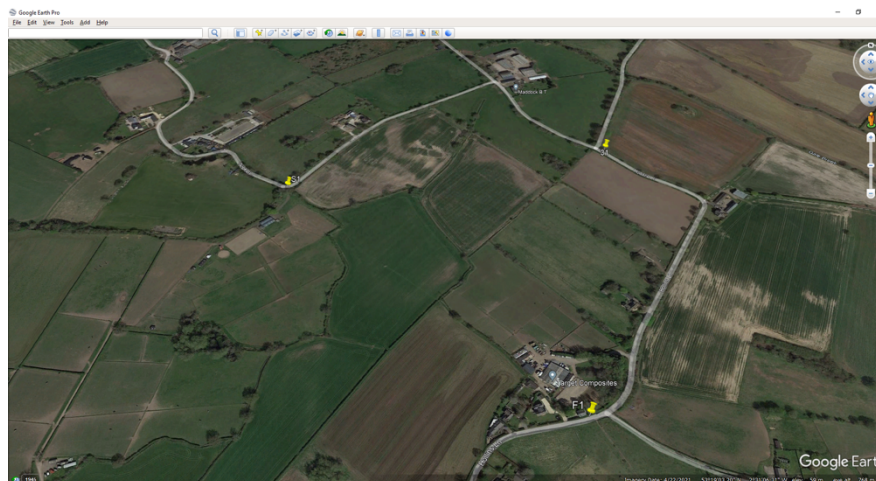


Create a KML Course File for the MapRun App

- **Step 1 (Course setting):** Create your score course in Purple Pen or Condes (NB. For Condes the start and finish must be named 'S1' and 'F1' in the course control list).
- **Step 2 (Create Course File):** Save the Purple Pen course file (*ppen*) or Condes course file (*IOF XML*).
- **Step 3 (Load map and course files):** From the MapRun Console menu (three lines in top left-hand corner) select the 'Create KML Course' option.



- a. Upload the KMZ map file that you have created previously.
 - b. Upload the Purple Pen (*ppen*) course file (or Condes files *IOF XML*).
- **Step 4 (Move controls, start, and finish to the precision location in google earth):** It is very important for the smooth running of the event that the controls are located accurately in reference to the Google Earth. The map is a depiction and google earth is reality. Therefore, we can live with some imprecision in the map but not on the ground (Google Earth). Right click on each control/start/finish and select move. Move the circle to the desired control placement.
 - **Step 5 (Creating KML file):** Once you are happy with the control placement then click the 'Save/download Course (KML)' button in the left-hand corner to create your KML file.
 - **Step 6 (Checking your KML file):** You can check your course control sites by opening the *kml* file and viewing in Google Earth. The controls will appear as pins.



- **Step 7 (Amending your KML file):** You can revise your KML file by going onto the MapRun console and using the 'Create KML' function, there is an option to import an existing KML file. This feature allows you to amend (delete, add, move and rename) controls in your existing KML file. After amendments have been made, you can save the new KML file with a new name.
- The *kmz* and *kml* files are now ready for use for setting up your MapRun event.

Creating an event on the MapRun App

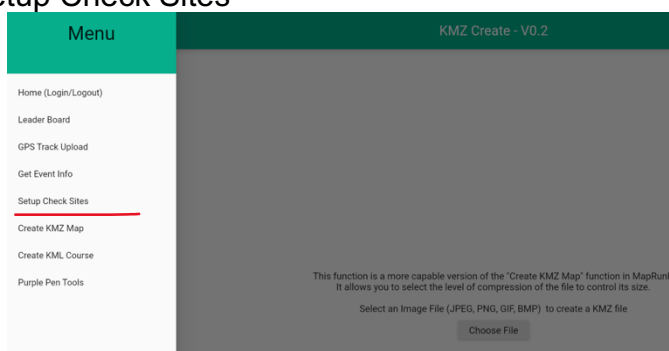
- **Step 1 (Send files):** Send the *kmz* and *kml* files to the Deeside Orienteering Club MapRun Administrator to setting up your MapRun event.
- **Step 2 (checking):** Once set up review the event in the MapRun App. Check the App to see that it has loaded properly.
- **Step 3 (On the ground check):** Using the 'Check Sites' feature you can check some or all the control locations for piece of mind on the evening. Check Sites is a utility that allows planners to go out using MapRun on their phone to check the viability of their chosen control sites. To set up a Check Sites for your event you need the *kmz* map file and the *kml* course file.

Settings

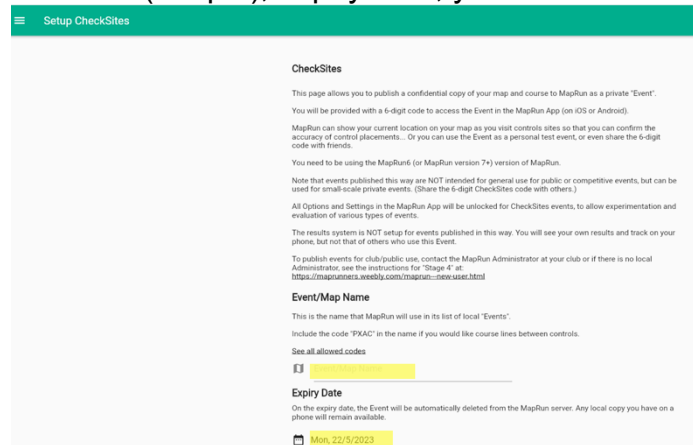
For consistency Deeside Orienteering Club Committee has agreed the following settings to be applied to each NSL by the MapRun Administrator:

Check Sites (optional for experienced users)

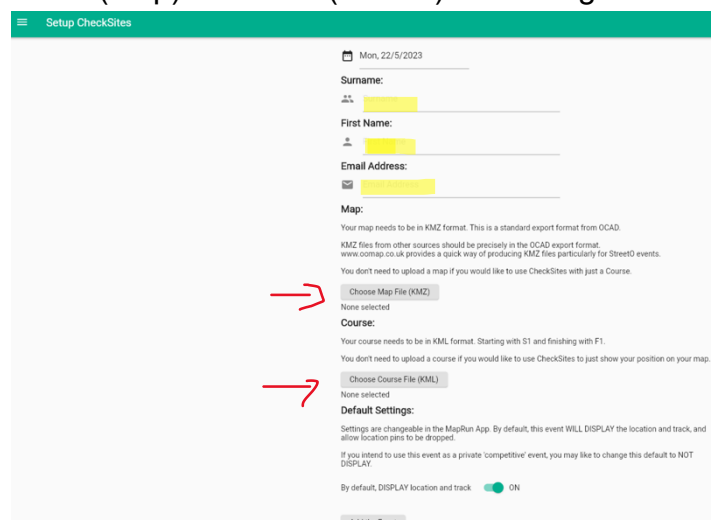
- **Step 1 (Setting Check Sites):** Open the MapRun Console. From the menu select the 'Setup Check Sites'



This will open a page of information required.
Fill in the event name (unique), expiry date, your name and contact details.

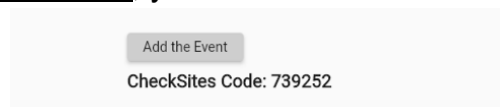


Upload your KMZ (map) and KML (course) files using the 'Chose File' buttons.



A six-digit code will be generated at the bottom of the page.

Make a note of your code, you will need it later.



- **Step 2 (Using Check Sites):**

On the MapRun app click on 'Check Sites' from the three lines menu (top right).

Enter your Check Sites code from step 1.

Tap 'Go to Start'. The map with control sites will then appear.

Go to the control locations with the phone and check they beep.