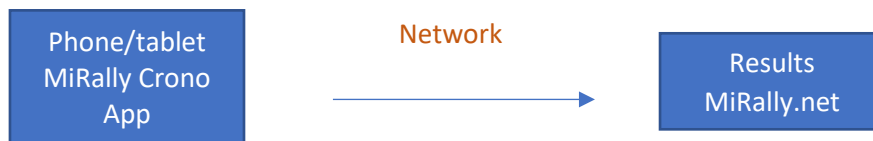# Regularity event - Competitor Tracking

MiRally Smartcontrol system will be used for calculating the results of the Regularity class. The system records location and time of the competitor during the competition, transmits the data over a network and calculates the difference between the competitor's ideal time and real time at each checkpoints.

Tablet or/and telephone

Compititor must use their **own** phone or tablet during whole event. Devices must have an Android or iOS (Apple) operating system and a **network connection**. The device must be running an iPhone 4S or later or an Android operating system from 2014 onwards.

Competitor must install the MiRally Crono-app, which is available from Android or Apple app store. The app should be allowed to use location services, check that app does not optimize battery usage and that the application should be updated to the latest version.

MiRally Crono is also part of Rabbit 2.0 app, which displays the ideal time and measure the distance, so one device could be used for driving and transmitting positioning information. Device running MiRally Crono must be connected to network and app must be started every time from "Connections" – menu.

Use

Competitor can run Mirally Crono in more than one device during the competition and it is recommended. It is also recommended that the device is charged throughout the competition. **The availability and operation of the necessary equipment and applications during the competition are the responsibility of the competitor.**

Necessary steps before the competition

1) Make personal IDs for MiRally.net website, **remember the specified email and password**
2) Select the competition you want to participate in
   a) Check or complete the driver' s, co-driver and car details and register for the race. Important fields are phone numbers and emails, the organizer may be in contact in case of problems.

Activities on the day of the competition

1) Launch the MiRally Crono-app and log in to the app with the existing (mirally.net) credentials.
   a) Always keep the app on the screen "top" during the race, after launching the app, do not return to the main screen!
   b) Do not use the phone for other functions during the competition, other use is allowed in an emergency
   c) Make sure the Crono-app works (clock is ticking, fields other than power management are "green")
   d) App messages, note if in red
      i) ERR (01): cell phone not registered
      ii) ERR (02): it's not the rally day
      iii) ERR (03): not registered or not approved in the rally
2) **If the weather is hot, the temperature on dash may rise too high, resulting that devices switching off.**

Better location measurement

The newer or higher the quality of the device, the more accurate the location. In addition, there are significant technical and qualitative differences between phone manufacturers and phone models.

If competitor wants to compensate the differences or the margin of error, it is possible to use an external GPS-receiver as Garmin Glo or Rabbit Glo. Extra devices are voluntary, and competitors are responsible from use of them.

Connection from external device to phone or tablet may have some problems, additional apps may be needed or connection may disturb network connection and loss of data to sent. There are several different help videos available in the settings of both operating systems on Youtube. Search for Garmin Glo For Android/iPhone.

Connect Garmin Glo with your device

1) **iPhone** (https://support.garmin.com/en-US/?faq=a8WwgwdMSS3LeIsW8lavJ6)
   a) Start Garmin Glo
      i) Make sure the blue light blinks
   b) Open iPhone settings
   c) Select Bluetooth
      i) make sure Bluetooth is turned on, select Garmin Glo from the device menu, connect
   d) Done when the blue light on your Garmin Glo is on and your iPhone notifies you of your Garmin Glo "connected"
2) **Android** (https://support.garmin.com/en-US/?faq=Mi8TKRtjWe6Cp4hwKvwFH7)
   a) Install the Bluetooth GPS app over internet
   b) Start Garmin Glo
      i) Make sure the blue light blinks
   c) Open device settings and select connections
      i) Select Bluetooth, make sure Bluetooth is turned on, select Garmin Glo from the device menu, connect
   d) Bluetooth connection is in order when the blue light on the Garmin Glo is on, and the device notifies the Garmin Glo "connected"
   e) Open Bluetooth GPS-app
      i) select "Enable Mock GPS Provider" located at the top left
         (1) If an Android settings page appears and the option "Allow mock locations" appears, use the return button to accept and return back to the Bluetooth GPS app
      ii) Select "Settings" from the Bluetooth GPS app menu
         (1) service settings, accept "Reconnect"
         (2) Connection Problems Related, accept "Use Insecure Connection"
         (3) return to the main Bluetooth GPS page and press "Connect"
            (a) If the fields fill up and update, your Garmin Glo and phone will function correctly. You can still switch between the "Status" and "Map" pages to see the data update.
      iii) In some cases, the device does not accept external devices and a separate change must be made to the settings. Instructions e.g. https://docs .google.com/document/d/1zy_0N6MyI0uSwZMPoEK5O8EmLZeHfERRlDIoiRw2bR0/mobilebasic ?pli=1)
      iv) On some Android devices, it is possible to "turn off" the phone's own GPS.