Installing Ride-With-GPS Routes in a Garmin Edge

By Steven Charnota

These notes describe methods for installing routes in a Garmin Edge that were created using Ride With GPS (RWGPS). RWGPS uses the term "route" to identify turn-by-turn directions. The Garmin Edge uses the term "course" for the same purpose. An RWGPS "route" is synonymous with a Garmin "course".

Thee are four libraries where routes/courses may be stored:

- RWGPS route library (resides in an RWGPS account accessible via the RWGPS website and the iPhone RWGPS app)
- Garmin Connect library (resides in a Connect account accessible via the iPhone Connect app at Features -> Courses)
- Garmin Edge library (resides in an Edge at Navigation -> Courses)
- Computer file system (.fit, .tcx, .gpx files) (resides in a personal computer file system)

Procedures for transferring routes/courses from each of these libraries to a Garmin Edge are provided. Each of these libraries provide different route management capabilities and for this reason it can be beneficial to have a copy of a route stored in each. To enable route users to choose the installation method that best suits their purpose the route provider should distribute a link to the route in RWGPS, a route file, and the title of the route in the AHBC route library. A link to the route in RWGPS provides the quickest and easiest means for route users to install the route in a Garmin Edge.

The Connect and Edge user interfaces described in the following text are based on an iPhone and an Edge 530, respectively. The user interfaces for Android phones and other Edge models may have different navigational controls but the operational menus for the Connect app and the Edge are usually the same.

Setting Up Connectivity between RWGPS, the Connect App, and the Edge

Wireless methods for installing RWGPS routes in an Edge require use of the RWGPS app and the Garmin Connect app. The RWGPS app, the Garmin Connect app, and the Edge must first be configured to allow communication between them.

- 1. Install the RWGPS app and the Connect app on the iPhone.
- 2. Open the RWGPS app and the Connect app and create an account in each if accounts do not already exist.
- Enable connectivity between the Connect app and the Edge using bluetooth pairing. First enable Bluetooth on the iPhone. In the Connect app: On any top-level page select More ... (lower right corner) -> Garmin Devices -> Add Device then follow the on screen instructions. Alternatively, view the video <u>https://youtu.be/DO2SMNRebLQ</u>

- 4. Enabling connectivity between the Connect app and the RWGPS app requires configuration changes in the Connect and RWGPS accounts. First, using the <u>webpage</u> RWGPS (not the RWGPS app), login and go to the webpage RWGPS home page and select the user profile, then select Edit Profile -> Connected Services -> Connect with Garmin and follow the on screen instructions.
- Next, open the Connect app. On any top-level page select More ... (lower right corner) -> Settings -> Connected Apps -> Ride with GPS -> Enable Courses. (Also select "Enable Activities" if you want to enable uploading ride data from the Connect app to RWGPS)
- For additional assistance: RWGPS users guide: <u>https://ridewithgps.com/help/</u> Connect app users guide: <u>https://support.garmin.com/en-US/?productID=125677&tab=topics</u>

Transfer an RWGPS Route to the Connect App and the Edge

Advantages: The route is stored in three libraries (RWGPS, Connect, and Edge) for easy future access and management. This is the preferred/easiest way to transfer an RWGPS route to the Edge. Disadvantages: None

Transferring an RWGPS route to the Connect app and the Edge is accomplished by "pinning" the route in RWGPS. When a route is pinned, RWGPS sends the route to the iPhone Connect app and the Connect app sends the route to the Edge. Pinning a route simply involves selecting the "pin" operation. The "pin" operation is ubiquitous in RWGPS. It is available in many RWGPS views and lists and it is presented in several different ways. The "pin" operation is often presented by an icon with the image of a push pin, but is it also presented with the text "Pin", "Save to Pinned", "Send to Phone", and "Send to Device" to name a few. The locations and presentations of the "pin" operation in the RWGPS app differ from that in the RWGPS webpage. The instructions that follow make use of a specific scenario and "pin" operation but many other scenarios exist. When the objective is to pin a route all presentations of the "pin" operation serve the same purpose.

On the iPhone

1. Select the RWGPS route to be transferred.

This can involve selecting a link to an RWGPS route (received in an email) or selecting a route in your personal RWGPS account. A link to an RWGPS route will open the route in the RWGPS app or in the RWGPS webpage depending upon the device used.

2. Pin the route.

The choices available for pinning the route will differ depending upon whether the route was opened in the RWGPS app or the RWGPS website.

- 1. For the RWGPS app: Select "Save -> Save to Pinned".
- 2. For the RWGPS website: Select the "Pin" icon.
- 3. The route is now pinned in the personal RWGPS account.

After the route is pinned in the personal RWGPS account

- 1. Open the Connect app on the iPhone (if not already open).
- 2. RWGPS automatically sends the pinned route to the Connect app. If the route does not appear in the Connect app list of courses pull down on the Courses page to refresh the list.
- 3. Power on the Edge (if not already powered on).
- 4. The Connect app automatically sends the route to the Edge. It may take 30 to 60 seconds for the Edge to synchronize with the Connect app. If the Connect app does not automatically send the route to the Edge then select the blue circle icon at the top of the Connect app "My Day" page to prompt the Connect app to send the route to the Edge.
- 5. The route now exists in the Edge library.

Transfer an AHBC Library Route to the Connect App and the Edge

Advantages: A route that resides in the AHBC route library may be transferred directly from the AHBC route library to the Connect app and the Edge. Disadvantages: None

A personal RWGPS account is used to access the routes in the AHBC RWGPS account. Access to the AHBC route library requires an AHBC Ride-With-GPS Club account (for new accounts see <u>https://cyclearlington.com/AHBC-RWGPS/index.html</u>). Routes in the AHBC route library can be made accessible to route users that do not have an AHBC Ride-With-GPS Club account by sharing a link to the route. To share a link to a route select "... " then select "Share".

On the iPhone

- 1. Select the route in the AHBC route library to be transferred
 - 1. Login to the RWGPS app on the iPhone (if not logged-in when the app was last closed).
 - 2. Select "More ..." (lower right corner).
 - 3. Select "Club" to access the AHBC route library.
 - 4. Select the desired route.
- 2. Pin the route.
 - 1. Select "Save".
 - 2. Select "Save to Pinned".
- 3. The route is now pinned in the personal RWGPS account.

After the route is pinned in the personal RWGPS account

- 1. Open the Connect app on the iPhone (if not already open).
- 2. RWGPS automatically sends the pinned route to the Connect app. If the route does not appear in the Connect app list of courses pull down on the Courses page to refresh the list.
- 3. Power on the Edge (if not already powered on).
- 4. The Connect app automatically sends the route to the Edge. It may take 30 to 60 seconds for the Edge to synchronize with the Connect app. If the Connect app does not automatically send the route to the Edge then select the blue circle icon at the top of the Connect app "My Day"

page to prompt the Connect app to send the route to the Edge.

5. The route now exists in the Edge library.

<u>On a computer or tablet</u>

- 1. Login to the RWGPS webpage on a computer or tablet (if not logged-in when the app was last closed).
- 2. Select the AHBC icon (located at the bottom of the menu displayed on the left side of the RWGPS home page) to open the AHBC webpage.
- 3. **DO NOT** login on the AHBC webpage.
- 4. Select "Route Library" from the menu at the top of the AHBC home page
- 5. Locate the desired route and select the "Pin" icon (second column from the right)
- 6. The route is now pinned in the personal RWGPS account.
- 7. Continue with the procedure "<u>After the route is pinned in the personal RWGPS account</u>" shown above.

Caveats Regarding RWGPS Pinned Routes, the Connect app, and the Edge

- If a route was previously pinned clicking "Save" on the iPhone will display "Unpin" instead of "Save to Pinned". Unpin the route then then Pin it again to trigger resending the route to the Connect app and the Edge.
- 2. When a route is pinned, RWGPS creates a snapshot of the route and sends it to the Connect app. Any future modifications to the original/source route in RWGPS (if it exists) do not affect the pinned snapshot.
- 3. When a pinned route is unpinned, the pinned route is deleted in RWGPS but the original/source route (if it exists) is not deleted.
- 4. Unpinning (deleting) a route in RWGPS does not delete the route from the Connect Library or from the Edge library.
- 5. The Connect library contains all pinned routes sent from RWGPS, including duplicates.
- 6. The RWGPS library and the Edge library do not contain duplicate pinned copies of the same route.

Transfer a Connect Library Course to the Edge

Advantages: Fastest way to transfer a route to the Edge. Route user does not need to use RWGPS to transfer the route to the Edge, but did need to previously use RWGPS to install the route in the Connect App Library.

Disadvantages: Can only be used to transfer previously acquired routes for a single user. Cannot be used to transfer routes between users.

 To access the Connect library click "More -> Edit" and then add "Courses" to the list of Tab Bar Features. Select "Courses", select the desired course, select "..." (at the top of the screen), and select "Send to Device".

Note: The list of routes in the Connect library is refreshed when the Connect app is first opened or by touching the "My Courses" page and pulling down.

Transfer an Edge Library Course to Another Edge

Advantages: Route user does not need to use RWGPS or Connect. Disadvantages: The route exists only in the Edge library.

- 1. Bring Edge devices involved in the transfer to within range (3 m) of each other.
- From the Edge that contains the routes to be transferred, select Menu -> Settings -> Connected Features -> Device Transfers -> Share Files.
- 3. Select a file type to share: "Courses"
- 4. Select one or more files to transfer.
- 5. From the device that receives the files, select Menu -> Settings -> Connected Features -> Device Transfers.
- 6. When the receiving device detects the sending device it will display the routes available for transfer. The sending device may continue to display no connection found.
- 7. Select the route(s) to receive.

Note: The whole process can take up to 5 minutes to transfer one route and there are no progress indicators. Establishing the connection between the edge devices can take up to 2 minutes and the route transfer can take up to 3 minutes.

Transfer an RWGPS FIT or TCX Route File to an Edge

Advantages: The route user does not need to use the RWGPS app or the Connect app. Disadvantages: This method requires special equipment (i.e. a computer and a USB data cable) and can be performed only when the special equipment is available. The route file is saved in only the Edge library.

- The RWGPS route file (FIT or TCX) resides on a computer (received in an email message). Note: The FIT format is preferred because it is best for turn-by-turn directions and uses 20% less Edge storage space than the TCX format.
- 2. Connect the Edge to the computer using a USB data cable. (USB cables that transmit only power will not work.)
- 3. The Edge is displayed as a storage device named "GARMIN" in the computer's device/file management view.
- 4. Click on the "GARMIN" device to view the Edge file system.

- 5. Open the "Garmin -> NewFiles" directory.
- 6. Move (drag and drop) the RWGPS route file to the "NewFiles" directory.
- 7. Eject the "GARMIN" storage device from the computer. DO NOT UNPLUG THE GARMIN FROM THE COMPUTER WITHOUT FIRST EJECTING IT. Failure to eject the "GARMIN" storage device may result in corruption of Garmin files.
- 8. After ejecting the "GARMIN" storage device from the computer unplug the Garmin Edge from the computer
- 9. The route is now available in the Edge library.

Transfer an RWGPS GPX File to the Connect App and the Edge

This installation method serves the niche purpose of installing a GPX file without using RWGPS or a computer. This is useful for an Edge that does not support FIT or TCX route files.

Advantages: The route user does not need to use RWGPS or a computer. The GPX file is saved in the Connect library and in the Edge library.

Disadvantages: There are two kinds of GPX file both of which are designated by the ".gpx" suffix. A "GPX Track" file is a GPS bread crumb trail and it can be installed as a course in the Connect app and the Edge (it does not include cue sheet entries or points of interest). A "GPX Route" file contains only cue sheet entries and cannot be installed in the Connect app and the Edge. RWGPS uses the same naming convention for both types of GPX file.

- 1. The RWGPS "GPX Track" file resides on a computer (received in an email message).
- 2. Login to the Garmin "Connect" app on the iPhone (if not logged-in when the app was last closed).
- 3. Power on the Edge (if not already powered on).
- 4. On an iPhone, select the GPX file and share it with the Connect app. (On an Android phone, select the GPX file and send it to the Connect app.)
- 5. Walk through the Course Setup steps in the Connect App to specify the type of activity this is intended for: "Road Cycling".
- 6. Select "Save", name the route, and choose the privacy level.
- 7. Select "Done".
- 8. Select " ... " (upper right corner)
- 9. Select "Send to Device".
- 10. Choose your paired device from the list.
- 11. The route is added to the Connect library and the Edge library.

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