

Waypoints in RallyBlitz Nav and Rally Blitz Nav Pro v1.1

To use the Waypoint functions in the RallyBlitz Nav and Nav Pro apps you need to ensure the GPX files are in the correct format before loading into the app. The GPX file can come from Garmin Basecamp, Rally Navigator or similar application¹. The file must contain the waypoints with the typical format shown here:

```
<wpt lat='40.71328' lon='-113.28875'><ele>1298.27551</ele><name>002</name></wpt>
```

In the above case the <name>002</name> indicates this was the second waypoint in the GPX route.

You can use waypoints, triple dangers and speed zones in RallyBlitz Nav.

WPxx – Waypoint where xx is replaced by a number. The Waypoint Guidance will appear (wake up) at 400m and acquires at 25m.

SPxx MPH – Speed zone where xx represents the speed in MPH (note the space is required). The speed zone wakes up (is active), but shows nothing, at 150m but alerts above the xx speed limit. The speed zone is active through bubble/diameter (300m).

SPxx KPH - Speed zone where xx represents the speed in KPH (note the space is required). The speed zone wakes up (is active), but shows nothing, at 150m but alerts above the xx speed limit. The speed zone is active through bubble/diameter (300m).

!!! – The Triple Danger will wake up and flash and alert at 150m. It acquires 25m from the defined danger zone and disappears.

Note: If a speed zone is set in MPH but RallyBlitz Nav is set for metric/KM the speed zone will adjust for the proper units. So a "SP60 MPH" will trigger an alert above 102 KPH if RB Nav/Nav Pro is being used in metric. This works the opposite as well if the zone is set in metric and the device is set to Imperial distance/speed.

The above "markers" in the GPX need to replace the standard text in the <name> field. So if the above 002 waypoint was actually going to be used as a hidden waypoint or WPM, named WP02, the GPX would need to read (note highlight in yellow):

```
<wpt lat='40.71328' lon='-113.28875'><ele>1298.27551</ele><name>WP02</name></wpt>
```

The waypoint naming convention does not need to be consecutive. Some like to use consecutively named WPMs, like 1, 2, 3... while others use the instruction number from the roadbook, like 3, 28, 44...

It's best to edit the GPX in a simple file editor like Notepad to prevent extra characters being added to the file. Editing in MS Word or similar can add extra characters to the GPX file and create a nightmare.

¹ Also note that the Tulip project (www.tuliptastic.com) auto generates GPX files that are natively RallyBlitz Nav compliant, so no GPX editing is required with Tulip roadbooks.

One tip if you use a simple editor but the file is hard to read...look in the options and see if there is a switch for "word wrap". This usually cleans up the mess.

Once you edited the file, put in in the appropriate DropBox folder and load it into RallyBlitz Nav. You need to get it loaded into the app with the rest of the files, and then click it again to make it active.

Below is a portion of the waypoints created from a Rally Navigator GPX and edited for WPM, Speed Zones and triple dangers.

```
<wpt lat='40.71328' lon='-113.28875'><ele>1298.27551</ele><name>002</name></wpt>
<wpt lat='40.71365' lon='-113.28587'><ele>1300.26245</ele><name>003</name></wpt>
<wpt lat='40.71145' lon='-113.28697'><ele>1294.98767</ele><name>004</name></wpt>
<wpt lat='40.70955' lon='-113.29173'><ele>1299.11646</ele><name>005</name></wpt>
<wpt lat='40.70585' lon='-113.28927'><ele>1293.25647</ele><name>WP1</name></wpt>
<wpt lat='40.70197' lon='-113.29052'><ele>1296.32935</ele><name>007</name></wpt>
<wpt lat='40.70016' lon='-113.28576'><ele>1299.66919</ele><name>008</name></wpt>
<wpt lat='40.69463' lon='-113.28894'><ele>1297.17603</ele><name>009</name></wpt>
<wpt lat='40.69478' lon='-113.29499'><ele>1294.47888</ele><name>010</name></wpt>
<wpt lat='40.68541' lon='-113.29445'><ele>1293.93616</ele><name>011</name></wpt>
<wpt lat='40.66862' lon='-113.29916'><ele>1296.53174</ele><name>012</name></wpt>
<wpt lat='40.63774' lon='-113.31717'><ele>1292.74963</ele><name>WP2</name></wpt>
<wpt lat='40.63768' lon='-113.31492'><ele>1293.61572</ele><name>SP25 MPH</name></wpt>
<wpt lat='40.63767' lon='-113.30319'><ele>1296.29187</ele><name>015</name></wpt>
<wpt lat='40.64269' lon='-113.29863'><ele>1303.90894</ele><name>!!!</name></wpt>
<wpt lat='40.64651' lon='-113.29739'><ele>1305.24011</ele><name>017</name></wpt>
<wpt lat='40.64516' lon='-113.29460'><ele>1318.50134</ele><name>018</name></wpt>
<wpt lat='40.64488' lon='-113.29294'><ele>1325.50879</ele><name>019</name></wpt>
<wpt lat='40.64664' lon='-113.28088'><ele>1329.21472</ele><name>020</name></wpt>
<wpt lat='40.64298' lon='-113.27438'><ele>1371.24573</ele><name>021</name></wpt>
<wpt lat='40.64408' lon='-113.26993'><ele>1413.22388</ele><name>022</name></wpt>
<wpt lat='40.64392' lon='-113.26778'><ele>1422.23413</ele><name>023</name></wpt>
<wpt lat='40.64350' lon='-113.26073'><ele>1376.18835</ele><name>024</name></wpt>
<wpt lat='40.64292' lon='-113.25743'><ele>1344.93335</ele><name>025</name></wpt>
<wpt lat='40.64039' lon='-113.26198'><ele>1338.46606</ele><name>026</name></wpt>
<wpt lat='40.63767' lon='-113.26139'><ele>1333.97266</ele><name>027</name></wpt>
<wpt lat='40.63765' lon='-113.23301'><ele>1299.93970</ele><name>028</name></wpt>
<wpt lat='40.64217' lon='-113.23396'><ele>1300.21204</ele><name>029</name></wpt>
<wpt lat='40.65284' lon='-113.24273'><ele>1296.35437</ele><name>WP3</name></wpt>
<wpt lat='40.64945' lon='-113.22809'><ele>1294.43677</ele><name>031</name></wpt>
<wpt lat='40.64062' lon='-113.22430'><ele>1296.11267</ele><name>032</name></wpt>
<wpt lat='40.64314' lon='-113.20507'><ele>1295.36548</ele><name>WP4</name></wpt>
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