

## Yellowbrick XML API - Integration notes

Request URL is <http://live.adventuretracking.com/xml/example?n=1>

where 'example' is the name of the race (provided by Yellowbrick on race setup), and the 'n=' parameter specifies the number of recent positions requested for each team.

An example of the XML returned is shown below.

```
<?xml version="1.0" encoding="UTF-8"?>
<YellowbrickData>
  <Settings>
    <Units>NAUTICAL</Units>
  </Settings>

  <Group name="Trackers">
    <Device serial="189" name="Oz" marker="189">
      <Position alert="false">
        <GpsAt>2010-10-15T18:00:00Z</GpsAt>
        <Latitude>49.2551</Latitude>
        <Longitude>-4.42819</Longitude>
        <Altitude>0.0</Altitude>
        <SOG>8.6</SOG>
        <COG>210</COG>
        <Battery>7.9</Battery>
        <ID>2948680</ID>
      </Position>
    </Device>

    <Device serial="187" name="Smiles" marker="187">
      <Position alert="false">
        <GpsAt>2010-10-13T09:40:00Z</GpsAt>
        <Latitude>46.15312</Latitude>
        <Longitude>-1.14897</Longitude>
        <Altitude>0.0</Altitude>
        <SOG>0.0</SOG>
        <COG>114</COG>
        <Battery>7.9</Battery>
        <ID>2936510</ID>
      </Position>
    </Device>

  </Group>
</YellowbrickData>
```

Within the **<Group/>** tag, there will be a **<Device/>** tag for each Yellowbrick assigned to a team in the race.

The **<Device/>** tag has the following attributes:

<b>serial=</b>	The Yellowbrick Tracking serial number of the <i>device</i> .
<b>name=</b>	A configurable team name
<b>marker=</b>	A configurable integer number assigned to a team

There will be one or more **<Position/>** tags for each team, depending on the value of the 'n=' request parameter. The **alert=** attribute will be set to true if the position was transmitted as a result of the tracker's alert button being pressed.

Within each **<Position/>** there are the following tags:

<b>&lt;GpsAt/&gt;</b>	The UTC timestamp of when the GPS position was recorded.
<b>&lt;Latitude/&gt;</b>	The latitude of the recorded GPS position, in decimal degrees format. Negative numbers are in the southern hemisphere.
<b>&lt;Longitude/&gt;</b>	The longitude of the recorded GPS position, in decimal degrees format. Negative numbers are in the western hemisphere.
<b>&lt;Altitude/&gt;</b>	The altitude of the recorded GPS position, in metres.
<b>&lt;SOG/&gt;</b>	The speed over ground at the recorded GPS position, in knots (assuming that the <b>&lt;Units/&gt;</b> tag contains 'NAUTICAL').
<b>&lt;COG/&gt;</b>	The course over ground at the recorded GPS position, in degrees.
<b>&lt;Battery/&gt;</b>	The battery voltage of the device at the time of transmission.
<b>&lt;ID/&gt;</b>	A unique integer ID representing this particular GPS position for this team. This can be used to detect whether a new position is available.