



Eagle Tree Systems Real-Time API Instructions, Version 2.2

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Here are the instructions for retrieving live data from our Windows application.

Setup:

- 1) Close the Eagle Tree application.
- 2) Run regedit.exe from Start->Run, and navigate to the following Key:
HKEY_CURRENT_USER/Software/Eagle Tree Systems/FDRV2 Application/Settings
- 3) Once there, using "Edit->New->DWORD Value", add a new REG_DWORD value, LiveModeLiveFile, and set it to 1. It should appear in the same section as several other parameters.

Operation:

- 1) launch the app, and during live mode the following file should be created live:
C:\LiveRecorderFile.log. The file contains records separated by CR/LF. Each record has several parameters, as shown in the format below. The parameters are separated by spaces.
- 2) Your application should be able to read the data from this file as it is being written, using ReadFile() or similar, with very little latency. One way to code your application is to poll for EOF to determine when the next record is available.

NOTE: To get the timestamp field to be nonzero, make sure you select the "record live mode" option in "Tools, live mode options".

Format of each line in the file:

```
Time IsEvent EventError EventData Aileron Elevator Throttle Rudder Altitude RPM RPM2  
RPM3 RPM4 Speed Battery TempA TempB ackCurrent PackVoltage GForceX GForceY GForceA  
GForceB ThermoA ThermoB ThermoC ThermoD ThermoE ThermoF SignalStrength PacketPercent  
Latitude Longitude Altitude GPSSpeed Course Distance UTC NumSats GPS_Flags ADA ADB ADC  
ADD ADE ADF ADG ServoCurrent RX_Holds RX_LostFrames RX_AntennaAFades RX_AntennaBFades  
RX_AntennaLeftFades RX_AntennaRightFades
```