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## **Plogg FAQ**

This FAQ is split into a number of sections, each section serves to resolve problems with a particular focus.

### **Plogg Manager**

- Which types of Plogg are supported?
  - o Plogg Manager V2.09 supports the 'binary' Plogg protocol on both Bluetooth and Zigbee devices (with firmware 2.07)
- What Bluetooth dongles are supported?
  - o Any Bluetooth dongle can be used as long as a serial port connection can be made with the Bluetooth software, if the PC uses the Microsoft, Widcomm (Broadcom), Toshiba or Blue Soleil stacks then the Bluetooth adaptor can be access directly by selecting the connection type 'Bluetooth' in the connection dialog
- Which PC operating systems are supported?
  - o Plogg Manager has been tested with XP (SP1 or greater) and Vista (both 32/64)
- Can I save Plogg data to my PC?
  - o Logs can be downloaded manually by connecting to a Plogg and selecting the "Download Logs" button or automatically by using the scheduler. The scheduler will connect to and download logs every 15 minutes from a list of Plogg devices, logs in this case are appended to a file (per device) as they are downloaded each time.
- Can I view my Log data graphically?
  - o Logs are in CSV (comma separated format) and are compatible with Excel or can be viewed using the internal graph viewer of Plogg Manager
- Can I run multiple Plogg Managers?
  - o Yes, although two Plogg Managers cannot share a single ZigBee dongle (BT can be shared, or BT and ZigBee simultaneously)

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### **Plogg DLL Library**

- Can I write my own manager application?
  - o Yes, the Plogg DLL is intended for this purpose, it can be interfaced using C++, C# etc using a library and DLL very quickly, this handles all device communications and protocol parsing.
- I don't want to use the DLL as I have very specific requirements, what can I do?
  - o The Plogg DLL comes with full source code, this can be modified or serve as a basis for your own application.
- I've used the Plogg DLL, but I'm having problems using the source code, what system setup is necessary?
  - o Windows XP/Vista and Visual Studio 2005 are the tested systems
- Are there are other sources of information?
  - o Documentation of the binary protocol, Bluetooth connection, and ZigBee AT commands are all detailed in the document titled "Plogg Binary Protocol Data Format"
- Can I use multiple instances of the Plogg DLL
  - o No, the system is set up to create one Plogg DLL object, you can create multiple parallel instances in separate processes or through modifications to the DLL source it would be possible.
- Do you support Linux or other Non-windows operating systems?
  - o The Plogg DLL is intended to service Windows XP/Vista, as the full source code is available or use the protocol documentation for your own implementation.
- Do you support any mobile devices?
  - o Windows Mobile (Smartphone / PocketPC), and Java support is only available for firmware prior to V2.00 (non-binary).

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## Plogg Devices

- Can I use my own wired/wireless modules on the Ploggs?
  - o This is achievable by emulating the Bluetooth module normally attached to the Plogg, the commands and responses expected by the microcontroller in the Plogg to the onboard Bluetooth device is all detailed in the provided documentation.
- I'm using a ZigBee device but having connection problems?
  - o In a ZigBee network there needs to be one coordinator and a number of routers, to start with configure your PC ZigBee dongle as a coordinator using the Plogg Manager, and leave all the Plogg devices as routers which is the factory defaults.
- What is the network / channel ID?
  - o The default ZigBee network is 0x31f4, the RF channel is auto sensing and should be connected automatically.
- How do I change my network ID?
  - o If you need to change the network ID, using Plogg Manager connect to a device using the current ID, change the network ID. Disconnect Plogg Manager. On the connection dialog you can change the network ID used when establishing a ZigBee network, change this, then leave and establish a new network. You should have the Plogg unplugged whilst establishing the new network.
- Can I speed up downloading logs?
  - o By default all values on the Plogg are recorded, this reduces the number of logs but also slows down log downloading, to optimise the system remove any log entries that aren't required using Plogg Manager. Note changing logged entries will erase old logs from the device.