

JWaveLib

Java library allowing easy integration of Coronis sensors network

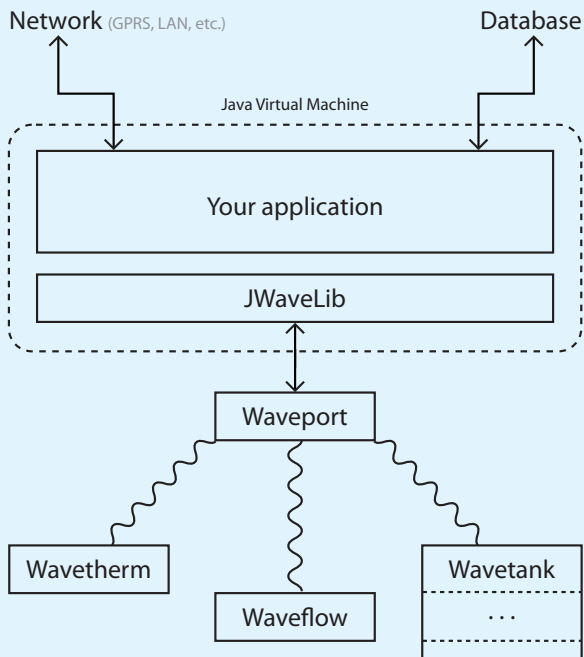
JWaveLib is a Java middleware library implementing the Wavenis© protocol to allow easy communication between any Java enabled device and a network of Wavenis© sensor modules using the Coronis Systems products.

JWaveLib focuses on integrator needs by decreasing their development time, assuring code quality and fully tested Wavenis© protocol implementation. **JWaveLib** respects the ultra-low power philosophy of the Wavenis© modules by limiting to the strict minimum the number of requests between the WavePort and the network of modules.

Features

- » Full Coronis sensor integration for Wavetherm, Waveflow and Wavetank : alarms, datalogging, extended datalogging, etc.
- » Minimal communication between the Waveport and the modules by using the most appropriate communication mode (PTP or MULTIFRAME)
- » Java J2ME CLDC 1.1 compliant. The library can be used in most embedded Java platforms but also with the latest Java Runtime Environment.
- » Officially supported J2SE Virtual Machines : Sun JDK >= 1.3, OpenJDK >= 1.6 with Java Communication API 3.0 or RXTX >= 2.1.7
- » Object-oriented architecture allowing easy integration with custom applications
- » Facility functions like getDailyData(), ...
- » Fully unit tested and complete javadoc available
- » Simple customization of the library's behaviour by configuration files and abstract classes.
- » Library size is less than 60 Kb
- » Support multiple RS-232 Waveport and unlimited numbers of sensors.
- » Integrated platforms : Siemens TC65, ACTL eWON's 4101 GPRS
- » Javadoc and class diagram can be downloaded from the Download section of our website.

How does it work?



Versions

Version 1.0 has been released on the 1st of October 2008

Code example

Using JWaveLib is as simple as the following code snippet :

```
// initialise Waveport
WavePort wpt = new SerialWavePort("waveport1", "/dev/ttyUSB0");
// initialise a Wavetherm using no Wavetalk
WaveTherm wth1 = new WaveTherm("031907301989", wpt, null);
int temperature = wth1.getCurrentValue();
// initialise Waveflow using no Wavetalk
WaveFlow wfl1 = new WaveFlow("021607314289", wpt, null);
int index = wfl1.getCurrentValue();
DataSet dst = wfl1.getDailyData();
```

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