

JWaveLib - Java library allowing easy integration of Coronis sensors network

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- You have no time to implement a robust wireless protocol ?
- You need a reliable wireless solution that can be quickly integrated into your company information system ?

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.

The JWaveLib is available in different versions depending on the user's need : the SDK and API .

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 with or without Wavetalk's : 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 getExtendedDatalogging(), getRSSI(), setDataloggingParameters(), ...
- 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 see the JWaveLib for eWON product page for more details.
 - Easy integration using the JWaveTool framework, eg. already used by the WaveSniffer product.

Interested ? Get the pdf product documentation.

Javadoc and class diagram can be downloaded from the Download section for registered user. No account yet? [Register](#)

Check out the FAQ in our support center .

Versions :

- Version 1.1.0 has been released on the 31th of July 2009
- Version 1.0.2 has been released on the 21th of Novembre 2008 (bugfix for extended datalogging parameters check)
- Version 1.0 has been released on the 1st of October 2008 (Product presentation : JWaveLib1.0)

Code example :

Using JWaveLib is as simple as the following code snippet :

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

Legals :

Waveport, Wavetherm, Waveflow, WaveTalk and Wavetank are products of Coronis Systems. Wavenis® is a registered trademark of Coronis Systems