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# Designing an open source maintenance-free Environmental Monitoring Application for Wireless Sensor Networks

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**highlights**

- We discuss the analysis and design of an Environmental Monitoring Application
- The application is reliable and maintenance-free, runs in multihop wireless network
- We analyze the different alternatives and tradeoffs, using open source software
- The application is validated in long-term outdoor deployments with good results
- Related work does not analyze the software design with open source

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