
Proactive Resource Management for Organic Data Streams

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Motivation

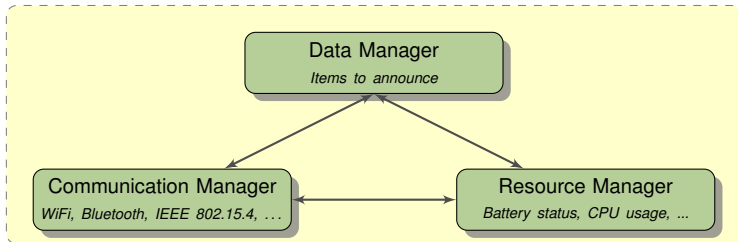
Organic Data Dissemination (ODD):

- Opportunistic communication
- Reinforcement learning
- Self learning
- Named information
- Distributed caching

⇒ *Gossiping*

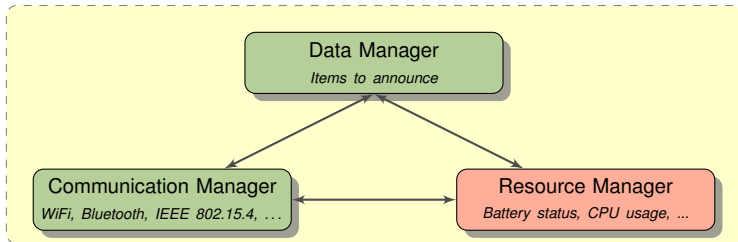
⇒ *Keetchi: A Communication Architecture for Organic Data Dissemination (Asanga Udugama)*

The ODD model



The ODD model

The ODD model



The ODD model

Task of the Resource Manager

Optimal use of the resources:

- Battery status
- Communication
- Memory
- CPU load
- ...

⇒ How to achieve this?

Android Smartphones as Keetchi nodes

- Possible to use BLE Beacon mode?
- Energy consumption?
- Alternative ways of communication on Smartphones?

