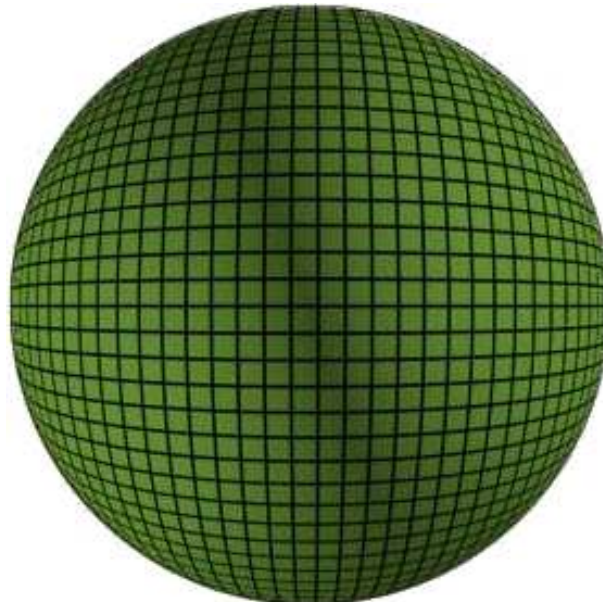


Organising sensors & storing data

By
Gilles GIGAN



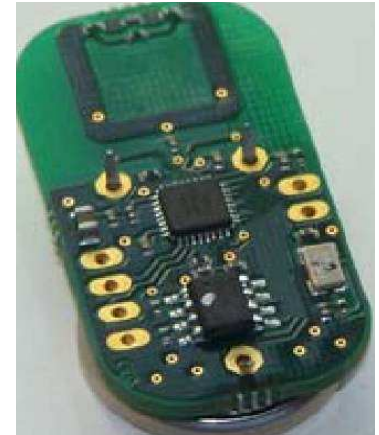


Project goals

- Networking multiple wired & wireless sensors trees
- Providing access to sensed data:
 - Real time streaming
 - On demand
 - Event-triggered
 - Archives

Sensor types

- Wireless sensors (Ambient-Systems [1])
 - SmartTags
 - MicroNode
- Wired sensors
 - LabJack [2]
 - 1-Wire Bus
 - Power subsystem
 - Motherboard sensors
 - MW Link

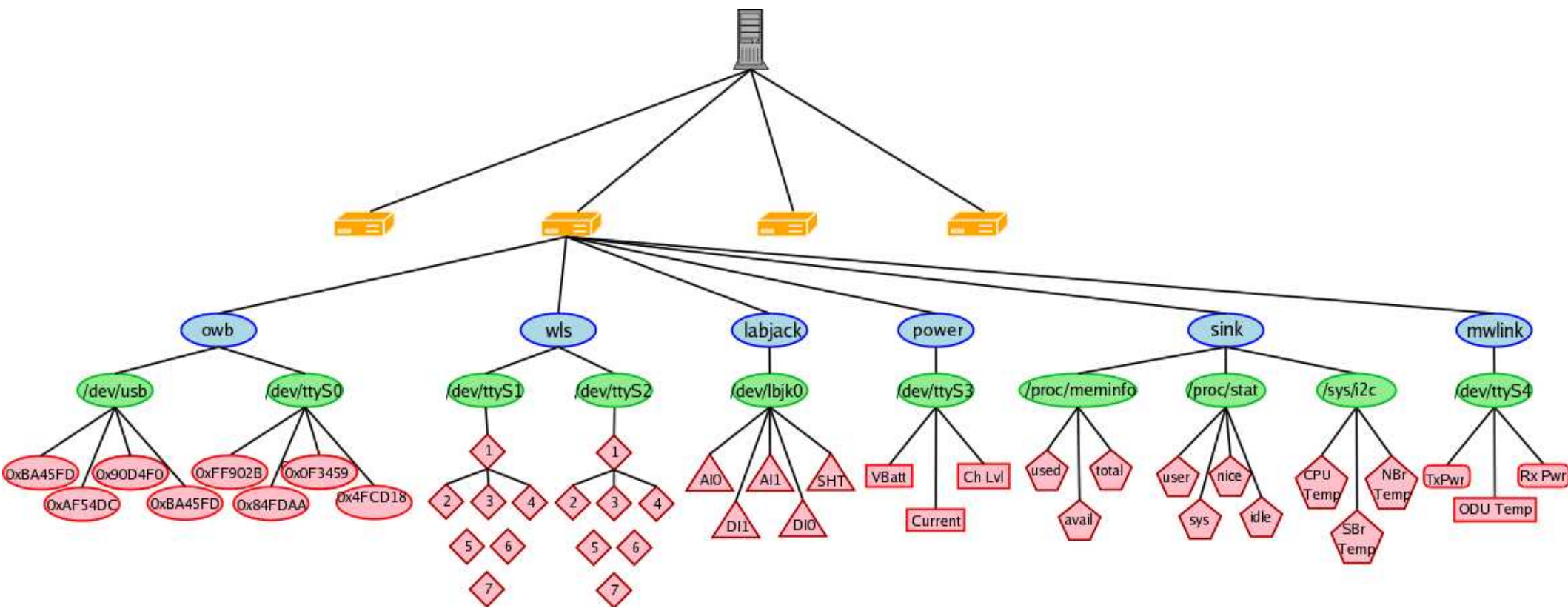




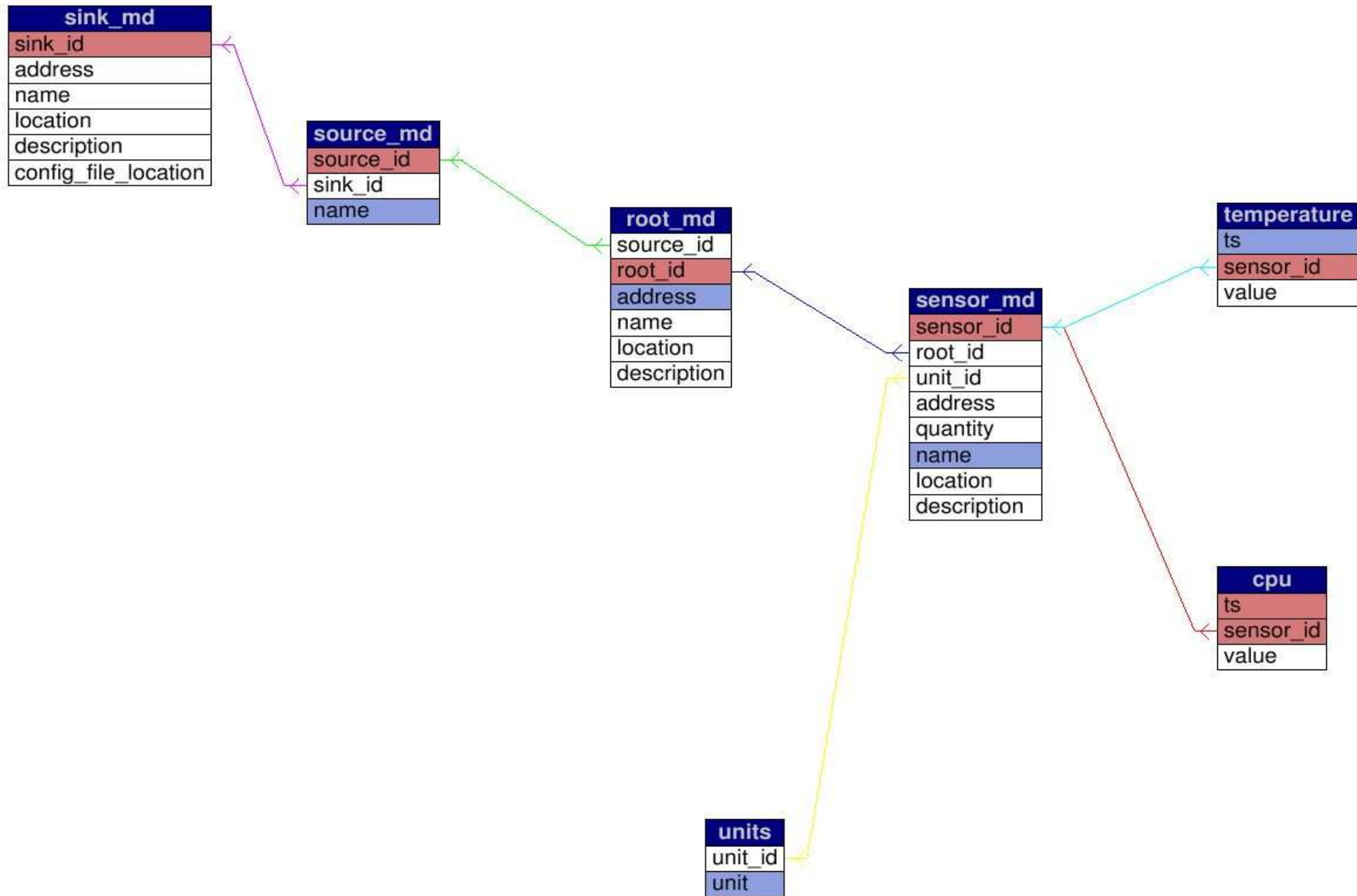
Challenges

- Organising heterogeneous devices for simple access & probing
 - Device instance
 - Naming scheme
 - Wireless sensors
 - Labjack
 - 1-wire sensors
 - Physical interface
- Single sensor configuration interface

Hierarchical view



Database design





References

- [1] SmartTag and MicroNode pictures taken from <http://www.ambient-systems.net>
- [2] Labjack pictures taken from <http://www.labjack.com>