SWAN Project

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Introduction

• Sensors
  • Onboard - Apple 3D touch
  • External - Smart watch
  • “Software”- Open data (Traffic, Weather)

• Interesting context-aware apps
  • Runtastic
  • Shazam
Due to strong wind, high fatigue level and poor road quality on chosen route, it's recommended to take an alternative route through Amstel.
SWAN framework

- Middleware between apps and sensors
- Supports 20+ sensors
- Easy plug-in for third party sensors
- Distributed sensing
- Cloud-ready
SWAN Song

"Let me know if the battery drops more than 25% within 1h with the screen turned off."

screen:on {ALL, 1h} == false && (battery:level {MAX, 1h} - battery:level {MIN, 1h}) > 25

IntentFilter ifilter = new IntentFilter(Intent.ACTION_BATTERY_CHANGED);
Intent batteryStatus = context.registerReceiver(null, ifilter);
... (10 more lines of code)