

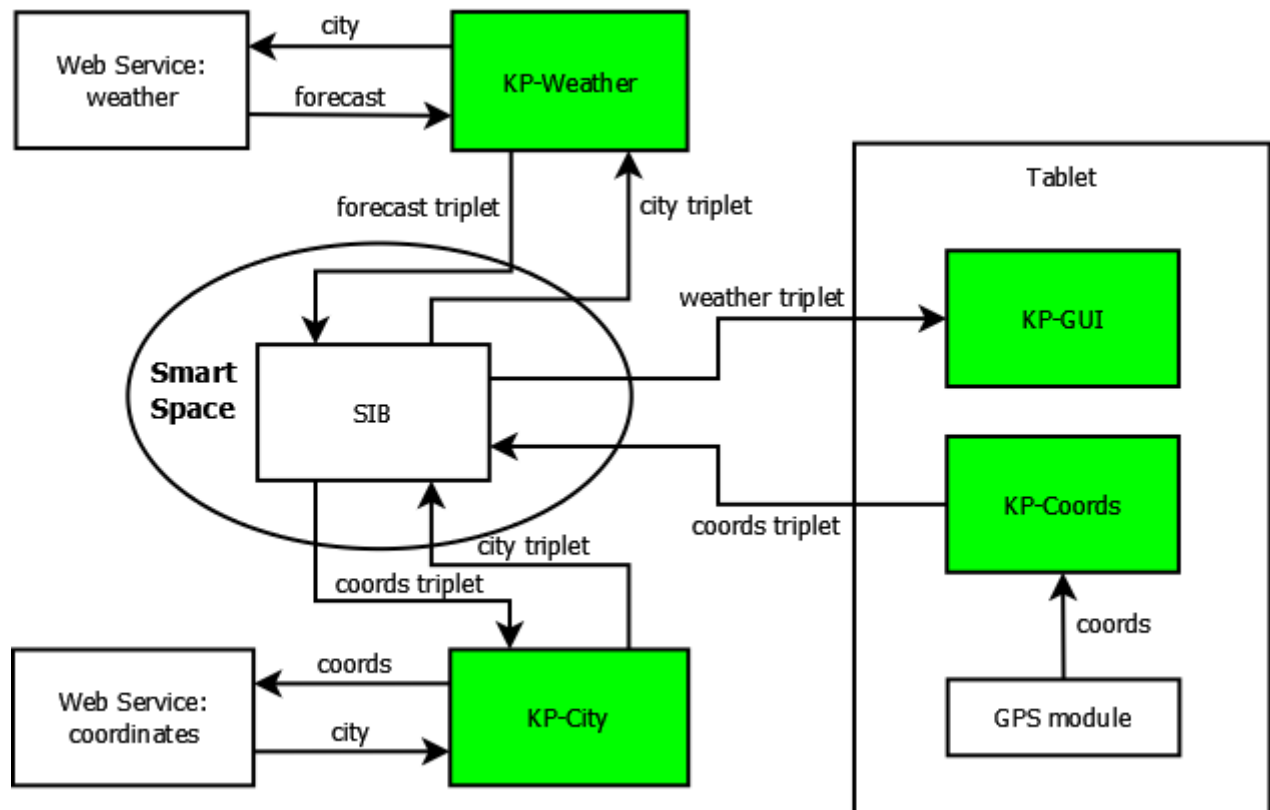
M3-Weather: A Simple Forecast Widget for Mobile Users

Pavel S. Borovinsky, Ivan V. Galov, Anna Samoryadova

Department of Computer Science, Petrozavodsk State University, Russia

This project develops a simple tourist application for mobile users. The idea is to show on the screen the weather forecast for a current position (GPS-based)

The development uses the Smart-M3 platform. The application consists of four knowledge processors (KP) that cooperatively use their smart space and its semantic information broker (SIB).



KP-Coords runs on user's mobile device (e.g., Nokia N900) and inserts the current user coordinates to the smart space.

KP-City subscribes to these coordinates. For each new value it requests a special web-service for the name of the city/town closest to the position. It can run on a dedicated device (server).

KP-Weather subscribes for the current city/town where the user is. For each new name it requests a special web-service for weather forecast for this city. It can run on a dedicated device (server).

KP-GUI runs on user's mobile device and subscribes for the current weather. When the value is changed the user sees the updated widget.