An implementation of CoAP protocol for Arduino and ESP8266

SemIoT project - Semantic technologies for Internet of Things ¹

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¹http://semiot.ru

CoAP://

RFC 7252 Constrained Application Protocol ²

- REST model
- resources available under a URL
- ▶ access through GET, PUT, POST, and DELETE methods
- working via UDP protocol

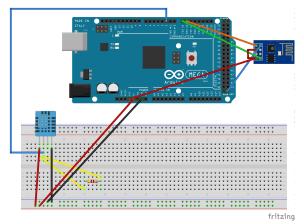


o/microcoap³

A C implementation that can be compiled for Arduino

- Implemented CoAP features:
 - ► CoAP GET, PUT, POST and DELETE methods
 - Initial clients support
 - Initial endpoints setup
- ► CoAP features required implementation:
 - Resource subscribe option
 - Full-fledged CoAP clients support
 - Appropriate endpoints setup

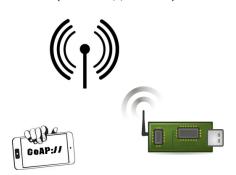




Arduino MEGA2560 with **ESP8266** WiFi-Module ⁴ and **DHT11** temperature and humidity sensor ⁵

⁴https://github.com/itead/ITEADLIB_Arduino_WeeESP8266

Future Plans: wireless device configurations tools (mobile application).



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