

Bachelor/Master Thesis

B.A.T.M.A.N. Routing in IoT

B.A.T.M.A.N. allows routing in mesh networks. The protocol version V is the current state in batman-adv (B.A.T.M.A.N. Advanced) and it is working on the layer 2 of the ISO/OSI network stack. While batman-adv is a common approach for mesh networks based on Linux systems, this project should evaluate the chances for the approach on microcontroller based systems.



Official B.A.T.M.A.N. logo [1]. CC SA 1.0 - Ssentinull

Goals

- Literature research on B.A.T.M.A.N. (on microcontroller)
- Theoretical evaluation of system requirements for B.A.T.M.A.N. routing
- Proof of concept implementation on microcontroller with wireless interfaces

Requirements

- Knowledge on computer networks
- Low level programming language like C

References

[1] Ssentinull. CC SA 1.0. https://wikipedia.org/wiki/File:Official_b.a.t.m.a.n._logo.svg

[2] B.A.T.M.A.N. Wiki <https://www.open-mesh.org/projects/batman-adv/wiki>

Project type Bachelor/Master Thesis
Duration 1 Term
Language(s) English, German
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