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IoT Enabled Optimized Architectures for GPS Anti-Theft Tracking Devices

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In this paper we summarize in a split direction state of the art survey –marketwise and research-oriented and we present a twofold IoT enabled, anti-theft system architecture –one oriented towards bicycles, that do not have a battery or its own electrical system and one oriented towards electrical vehicles such as electrical bikes/scooters and cars. We corroborate the hardware architecture with a functional software architecture, that can be easily used on both solutions. In the end, we present the relevant results of a case study implementation of the architectures: the tracking map resulted from continuous monitoring of the GPS position and periodical transmissions by GPRS connection and the variations in SMS receiving times.

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