

Nawawit Nounkaw 2013: Power Saving Mechanism in Media-Independent Handover Network. Master of Engineering (Computer Engineering),
Major Field: Computer Engineering, Department of Computer Engineering.
Thesis Advisor: Associate Professor Anan Phonphoem, Ph.D. 75 pages.

MIH standard defines the mechanism for allowing a mobile device with more than one interface to seamlessly roam between different network technologies. All interfaces are simultaneously turned on for discovering the candidate technologies which cause unnecessary power consumption. In this research, an On-Off Period (OOP) mechanism for saving power consumption in mobile device and supporting always best connected (ABC) has been proposed. To enhance the monitoring process, the standby interfaces will be turned on and off for a period of time without any centralized information requirement.

The study shows that the proposed mechanism can save more energy similar to centralized mechanism by assigning off-durations in the range of 15 to 30 seconds with low opportunity loss.

Student's signature

Thesis Advisor's signature