Electromagnetic interaction: threats for cybersecurity

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Résumé

Electromagnetic security relates to risks arising from interaction between an electronic device processing sensitive information and its electromagnetic environment. While physical cryptanalysis or fault injection on components are quite well known from information security specialists, other threats considering an attacker in physical proximity exploit such interaction. As such, TEMPEST, IEMI, among other funny codenames can be seen as device level counterparts of these component level threats. In this keynote, an overview of threats considered in electromagnetic security will be proposed in order to allow a better understanding of threat models.

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