

1. Cybersecurity threats analysis for airports

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Abstract: In today's society, the cyber-security subject raises a lot of uncomfortable questions and gives no alternative to cyber-attacks. Thus, for a better understanding of the problem, people should know that such attacks are deliberate malicious acts undertaken via cyber-space to compromise the system directly and extract valuable information. In terms of airport informational security, there are a lot to take into consideration, from digitalized processes (e.g. flight display, check-in process) to all human activities (e.g. ensuring guidance to the gates, welcoming people on board). Due to the latest trend of BYOD (Bring Your Own Device), the introduction of the new generation e-Enabled aircraft, such as Boeing 787 (including all the technologies they support and wireless connectivity) contributed to the growth of the cyber-security breaches. In order to reduce these events, people should understand the danger they can easily generate using, for instance, mobile terminals during a flight. For the prevention of malicious attacks, the authorized personnel have to conduct an in-depth analysis of all the security interconnections which were established between different networks. The main idea of this paper is to describe several use-cases where the cyber-security field related to airports is brought to the public attention. © Springer Nature Switzerland AG 2019. (30 refs)

Main heading: Airport security

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Uncontrolled terms: Bring your own devices - Cyber security - Cyber-attacks - Human activities - In-depth analysis - Threats - Vulnerabilities - Wireless connectivities

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