IEEE 8th International Conference on Problems of Infocommunications, Science and Technology (PICST) Article number 179334, 2021, Pages 213–217

Assessing Approaches of IT Infrastructure Audit

Kipchuk, F.a, Sokolov, V.a, Skladannyi, P.a, Ageyev, D.b

^a Borys Grinchenko Kyiv University, Kyiv, Ukraine

^bKharkiv National University of Radioelectronics, V. V. Popovskiy Infocommunication Engineering Department, Kharkiv, Ukraine

Abstract

The paper presents a brief overview of information security components criteria. Further analysis of common schemas in financial and commerce sectors determining common items as IT security subjects. Lead and general security standards are analyzed for the approach of determining the scope for auditing IT infrastructure. Schemes typical for financial and commerce sectors are analyzed for identifying typical and individual IT subjects. A new approach for determining scope is purposed. Comparison of new and general approaches is shown on examples of basic schemas of companies. Testing of the approach described. © 2021 IEEE.

Author keywords

Assessment; GDPR; Infrastructure audit; ISO 27001; NIST; PCI DSS

About this paper

https://ieeexplore.ieee.org/document/9772181

Online ISBN: 978-166540682-6 **DOI:** <u>10.1109/PICST54195.2021.9772181</u> **EID:** <u>2-s2.0-85130949573</u> **First Online:** 16 May 2022 **Original language:** English **Publisher:** IEEE Inc.