

ASSESSING THE SECURITY OF AN IT&C SYSTEM USING SCAN TESTS

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Abstract. *Cyber security has become a topic of strategic importance both internationally and nationally. In order to protect against cyber threats, it is essential to have an appropriate cyber security management system. The purpose of the present paper is to assess the confidentiality, integrity and availability as well as the security of information by identifying vulnerabilities in the network, in order to comply with the security requirements in accordance with the ISO/IEC 27001 standard.*

Rezumat. *Securitatea cibernetică a devenit un subiect de importanță strategică atât la nivel internațional, cât și la nivel național. Pentru a se proteja împotriva amenințărilor cibernetică, este esențial să se dispună de un sistem adecvat de gestionare a securității cibernetică. Scopul prezentei lucrări este de a evalua confidențialitatea, integritatea și disponibilitatea, precum și securitatea informațiilor prin identificarea vulnerabilităților din rețea, pentru a respecta cerințele de securitate în conformitate cu standardul ISO/IEC 27001.*

Keywords: security, sistem IT&C system , vulnerability, scan tests

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1. Introduction

The information security control must be permanent, centralized and specialized in order to deal with the complexity and high danger of information security threats from various sources.

The SR ISO/CEI 27001:2013 standard provides a model for establishing, implementing, operating, monitoring, reviewing, maintaining and improving an information security management system [1].

The paper aims at assessing the integrity, confidentiality, availability and security of information, taking into account the security requirements in accordance with the ISO/IEC 27001 standard.

The IT&C infrastructure has the following characteristics:

- 25 computer systems, 5 servers and about 10 specific applications developed with internal and/or external resources and various other commercial applications provided by third-party manufacturers (Adobe Systems Incorporated, Corel

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