

E-learning Systems Security

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Abstract

E-learning systems consist of a planned teaching-learning experience, organized on a platform that provides materials in order to be assimilated by the students. Today, e-learning systems are used by many people. Therefore security becomes a fundamental requirement. As e-learning increases in popularity and reach, the need to understand security will also increase. A risk analysis needs to be part of each e-learning project. This paper analyzes the security of the elearning systems.

Keywords: Security, vulnerability, system, e-learning, platform

References:

1. Som Naidu, "E-learning – A Guidebook of Principles, Procedures and Practices", 2nd Revised Edition, CEMCA, 2006, pp. 5-9.
2. A. Jalal, Mian Ahmad Zeb, "Security Enhancement for ELearning Portal", IJCSNS International Journal of Computer Science and Network Security, VOL.8 No.3, March 2008, pp. 42-44.
3. Edward Hurley, News Writer, "Dangerous, familiar application vulnerabilities top list", 27 Jan 2004.
4. Sumit Siddharth, Pratiksha Doshi, "Five common Web application vulnerabilities", April 2006, pp. 12-18.
5. C Lim, M Yu, J S Jin., "Generic e-learning data structure and Web teaching", IEEE International Conference on e- Technology, e-Commerce and e-Service, Hong Kong, March 2005, pp 564-569.
6. A. Jalal, Mian Ahmad Zeb, "Security and QoS Optimization for Distributed Real time Environment", IEEE International Conference on Computer and Information, 2007, pp. 4-8.
7. "Benefits of e-Learning", <http://www.hyperstudy.com/>, July 2010.
8. Vladimir Dimitrov, Hristo Turlakov, Luben Boyanov, "Elearning System for Course Works", of international workshop NGNT, 2007, pp. 57- 65.
9. E. Kritzinger, S.H von Solms, "E-learning - Incorporating Information Security Governance", 2006, pp. 4-7.
10. Akram Alkouz and Samir A. El-Seoud, "Web Services Based Authentication System for e-learning", International Journal of Computing & Information Sciences, Vol. 5, No. 2, August 2007, pp. 74-78.
11. Atkinson Bob, Della-Libera Giovanni, Hada Satoshi, "Web Services Security (WS-Security) Version 1.0 05", Microsoft corp., April 2002, pp. 20-31.
12. "WS-Security Specifications" <http://msdn.microsoft.com/library/default.asp?url=/library/enus/dnglobspec/html/wssecurspecindex.asp>, July 2010.