

Protection Profile of Web Content Protection System

Hyun-Jung Lee and Dongho Won¹

¹ Information Security Group,
School of Information and Communication Engineering,
Sungkyunkwan University, 300 Cheoncheon-dong, Jangan-gu,
Suwon, Gyeonggi-do 440-746, Korea
{hjlee, dhwon}@security.re.kr

Abstract. Since the Internet is a widely used tool in many business areas these days, a large amount of contents are offered through the Web. Almost all of them, however, are being provided to users without any protection. Anyone can copy and reuse the contents without permission by using features of the Web browser and even use them for commercial purposes. It is time to consider having countermeasures to protect the Web contents from illegal use and leakage. Therefore, this paper intends to derive necessary security functions for a Web contents protection system with the basis of the Common Criteria V3.1. It can be used as reference in the case of introduction or evaluation of the system.

Keywords: Web Content Protection System; Protection Profile; Common Criteria; PP; CC

1 Introduction

While the wide distribution of Internet enables people to share and exchange data easily, it also caused many sorts of accidents. For example, a malicious user can copy and leak Web contents of a company by using features provided on the Web. The contents lose the value as an asset after being leaked, which can cause financial loss, psychological damage, and even ruined company name.

Also many companies have been changing their work environments into a groupware system with the developing Internet technologies. In a groupware environment, confidential information of a company, such as information of client, marketing, or product, can be easily exposed to the staff. Web-based service system increases the possibility of the information being copied and leaked out of a company. Given the fact that many of the security-related accidents on the Internet happened in-house, it is necessary to protect against information leakage in a company that adopts a groupware system.

This paper intends to derive security functional requirements for a Web contents protection system based on the Common Criteria V3.1.

¹ Corresponding author: Dongho Won (dhwon@security.re.kr)

