
BARRIER1

Application Gateway Security Assessment

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Executive Summary

Overview

This document was prepared to describe the results of the security assessment conducted on the BARRIER1 gateway security appliance product (hereafter referred to as BARRIER1). This security assessment consisted of the following actions:

- A Source Code Review (SCR) of the application code used in BARRIER1.
- Security research of the open source applications or components used by BARRIER1 for known vulnerabilities.
- A pre-certification assessment of BARRIER1 against the ICSA Lab's certification criteria for basic/corporate firewalls, Internet anti-virus gateways, and web content filters.

Findings Summary

Overall, BARRIER1 proved to be both secure and provide all the functionality declared by the Barrier Group. During the SCR and Open Source research, no security vulnerabilities were found with BARRIER1. In addition, BARRIER1 was found to be in complete compliance with the ICSA criteria for Firewall, anti-virus, and content filtering.

Source Code Review (SCR)

The SCR involved a manual, line-by-line inspection of the application source code for vulnerabilities that could lead to a compromise of BARRIER1's confidentiality, integrity, or availability. After a comprehensive review of BARRIER1, no application security vulnerabilities were found. Comparatively, ninety-eight (98) percent of all applications reviewed by Apex Technologies contain at least one significant application security vulnerability. The findings of this SCR place the BARRIER1 in an elite group of applications. BARRIER1 ranks among the top five most secure applications reviewed by Apex

Technologies in over five hundred SCRs of enterprise, commercial applications.

Open Source Known Vulnerabilities Research

The Open Source Known Vulnerabilities research involved searches of industry standard security databases for known or published vulnerabilities within technologies used in BARRIER1. The search found no known vulnerabilities in BARRIER1. While ten known vulnerabilities were found within various versions of the technologies utilized by BARRIER1, BARRIER1 utilized secure versions of those technologies that were not susceptible to the published vulnerabilities. The results of BARRIER1 are consistent with applications that are diligent with security patching and change management.

ISCA Lab pre-certification Testing

The ISCA Lab pre-certification assessment found BARRIER1 to completely fulfill the ISCA Lab's criteria for Basic/Corporate Firewalls, Anti-virus gateways, and Content filters.

In conclusion, BARRIER1 met or exceeded all claims made by the Barrier Group about the product in the areas tested. It proved to be a highly secure and highly functional product.

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