

Security Advisory SWRX-2015-002

Lastline Portal Cross-Site Request Forgery (CSRF)

Dell SecureWorks Counter Threat Unit™ Threat Intelligence

Advisory Information

Title: Lastline Portal Cross-Site Request Forgery (CSRF)

Advisory ID: SWRX-2015-002

Advisory URL: http://www.secureworks.com/cyber-threat-intelligence/advisories/SWRX-2015-002

Date published: Monday, June 8, 2015

CVE: CVE-2015-4125 **CVSS v2 base score**: 5.1

Date of last update: Monday, June 8, 2015

Vendors contacted: Lastline **Release mode**: Coordinated

Discovered by: Dana James Traversie and Sean Wright, Dell SecureWorks

Summary

<u>Lastline</u> is a breach detection platform that provides administrative functionality and other features via a dedicated web application. There are multiple vulnerabilities in the Lastline Portal web application due to insufficient or missing CSRF defenses. An unauthenticated, remote attacker could conduct cross-site request forgery (CSRF) attacks by persuading a user to follow a malicious link or visit an attacker-controlled website.

Affected products

These vulnerabilities have been confirmed in version 6.0.1 of the Lastline Portal web application.

Note: The Lastline infrastructure hosted by Dell SecureWorks is not vulnerable to this issue.

Vendor information, solutions, and workarounds

The vendor released an updated version of the Lastline Portal web application to address these vulnerabilities. Users should upgrade to version 6.3 or later.

Details

Multiple vulnerabilities exist in version 6.0.1 of the Lastline Portal web application due to insufficient or missing CSRF defenses. Virtually all actions in version 6.0.1 of the Lastline Portal web application are affected. An attacker could leverage these vulnerabilities to conduct CSRF attacks against users. Successful exploitation may allow an attacker to obtain complete control over the web application, modify or steal data, or launch additional attacks.



CVSS severity (version 2.0)

Access vector: Network Access complexity: High Authentication: None

Impact type: Gain privileges/assume identity, bypass protection mechanisms, read application data,

modify application data, cause a denial of service

Confidentiality impact: Partial Integrity impact: Partial Availability impact: Partial CVSS v2 base score: 5.1 CVSS v2 impact subscore: 6.4 CVSS v2 exploitability subscore: 4.9

CVSS v2 vector: (AV:N/AC:H/Au:N/C:P/I:P/A:P)

Proof of concept

Dell SecureWorks researchers created a working CSRF exploit (see Figures 1 through 6) that inserts a new user in the Lastline Portal web application with administrator privileges. A proof-of-concept <u>video</u> illustrates the vulnerability, the exploit, and its outcome.

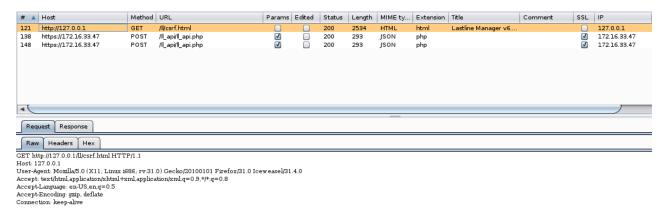


Figure 1. Victim browses to attack site while logged into Lastline Portal. (Source: Dell SecureWorks)



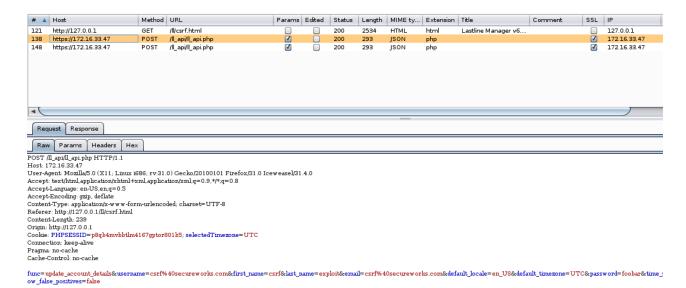


Figure 2. Attack site makes first Lastline Portal API request on behalf of the victim. (Source: Dell SecureWorks)

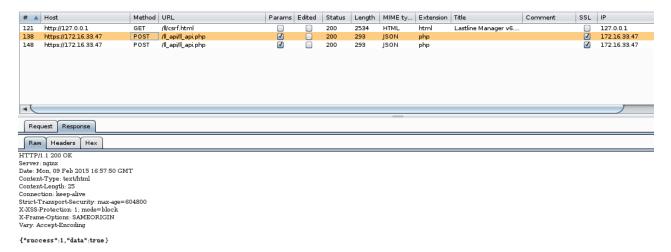


Figure 3. Lastline Portal API response indicates success. (Source: Dell SecureWorks)



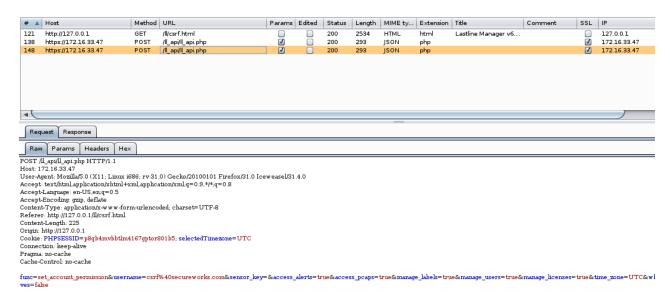


Figure 4. Attack site makes second Lastline Portal API request on behalf of the victim. (Source: Dell SecureWorks)

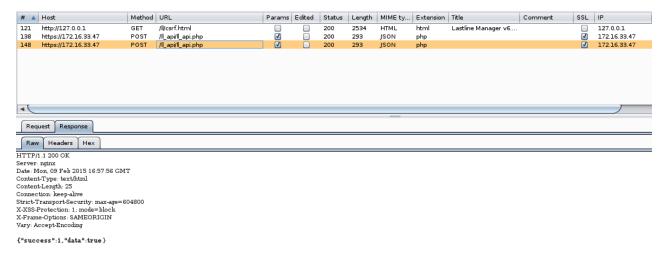


Figure 5. Lastline Portal API response indicates success. (Source: Dell SecureWorks)



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Lastline Manager v6.0.1 CSRF POC [Bravo]
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Figure 6. Portion of the working proof-of-concept exploit. (Source: Dell SecureWorks)

Revision history

1.0 2015-06-08: Initial advisory release

PGP keys

This advisory has been signed with the Dell SecureWorks Counter Threat Unit™ PGP key, which is available for download at http://www.secureworks.com/SecureWorksCTU.asc.

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