

# DefenseCode



## DefenseCode ThunderScan SAST Advisory

### WordPress All In One Schema.org Plugin Security Vulnerability

All In One Schema.org – Cross-site scripting Security Vulnerability	
Advisory ID:	<b>DC-2017-01-002</b>
Software:	<b>WordPress All In One Schema.org Plugin</b>
Software Language:	<b>PHP</b>
Version:	<b>1.4.1 and below</b>
Vendor Status:	<b>Vendor contacted, update released</b>
Release Date:	<b>2017/05/24</b>
Risk:	<b>Medium</b>

#### 1. General Overview

During the security audit of All In One Schema.org plugin for WordPress CMS, security vulnerability was discovered using DefenseCode ThunderScan application source code security analysis platform.

More information about ThunderScan is available at URL:

<http://www.defensecode.com>

#### 2. Software Overview

According to the developers, All In One Schema.org Rich Snippets is a WordPress plugin that is made to boost CTR, improve SEO and rankings, and support most of the content type. The authors claim it works perfectly with Google, Bing, Yahoo & Facebook.

According to wordpress.org, it has more than 50,000 active installs.

Homepage:

<https://wordpress.org/plugins/all-in-one-schemaorg-rich-snippets/>

<https://www.brainstormforce.com/>

### 3. Vulnerability Description

During the security analysis, ThunderScan discovered Cross-Site Scripting vulnerability in All In One Schema.org Rich Snippets WordPress plugin.

The Cross-Site Scripting vulnerability can enable the attacker to construct the URL that contains malicious JavaScript code. If the administrator of the site makes a request to such an URL, the attacker's code will be executed, with unrestricted access to the WordPress site in question. The attacker can entice the administrator to visit the URL in various ways, including sending the URL by email, posting it as a part of the comment on the vulnerable site or another forum.

#### 3.1 Cross-Site Scripting

Vulnerable Function: **echo()**  
Vulnerable Variable: **\$\_GET['bsf\_send\_label']**

Vulnerable URL:

```
http://vulnerablesite.com/wp-admin/admin.php?page=rich_snippet_dashboard&bsf_force_send=true&bsf_send_label=<%2Fscript><script>alert(1)<%2Fscript>
```

File: all-in-one-schemaorg-rich-snippets\init.php

```
466     $label = $_GET['bsf_send_label'];  
...  
471     $('td.savesend input').val('<?php echo $label; ?>');
```

### 4. Solution

Vendor resolved the security issues after we reported the vulnerability. All users are strongly advised to update WordPress All In One Schema.org Rich Snippets plugin to the latest available version.

### 5. Credits

Discovered with DefenseCode ThunderScan Source Code Security Analyzer by Neven Biruski.

### 6. Disclosure Timeline

2017/03/28	<b>Vendor contacted</b>
2017/03/29	<b>Vendor responded</b>
2017/05/24	<b>Advisory released to the public</b>

### 7. About DefenseCode

DefenseCode L.L.C. delivers products and services designed to analyze and test web, desktop and mobile applications for security vulnerabilities.

DefenseCode ThunderScan is a SAST (Static Application Security Testing, WhiteBox Testing) solution for performing extensive security audits of application source code. ThunderScan performs fast and accurate analyses of large and complex source code projects delivering precise results and low false positive rate.

DefenseCode WebScanner is a DAST (Dynamic Application Security Testing, BlackBox Testing) solution for comprehensive security audits of active web applications. WebScanner will test a website's security by carrying out a large number of attacks using the most advanced techniques, just as a real attacker would.

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