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Shenzhen Skyworth RN510 Buffer Overflow

Authored by Kaustubh G. Padwad

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Shenzhen Skyworth RN510 suffers from a buffer overflow vulnerability that allows for remote code execution.

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* RMSIO dual-band wireless AC2100 access point delivers high-speed access for web surfing and HD video streamings. Integrated with two glgabit LAM ports, and a dual-band AP which supports 2x2 802.11n(010Mps) and 4x8 802.11an(017Mps) concurrently, RMSiOprovides a stable & reliable high speed wired and wireless connectivity for home user and SIOM users. Utilizing state of art EasyMesh Solution, two or (e.g. GMS43) and form an automatically organized network. RMSIO could support either wired line backhaul or wireless backhaul to other mesh node. User could enjoy a wonderful zero-touch, robust and failure autorecovery, seamless connected wireless home networking experience. RMSIO uses a system of units to achieve seamless whole-home Wi-Fi coverage, eliminate week signal areas once and for all, RMSIO work together to form a unified network with a single network name. Devices the fastest possible speeds. A RMSIO Dual-pack delivers Wi-Fi to an area of up to 2,800 aguare feet. And if that's not enough, simply add more RMSIO to the network name coverage, RMSIO provides fast and stable connections with speeds of up to 2100 Mpps and works with major internat 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 Skywiff app there to walk you through every step.

An issue was discovered on Shenzhen Skyworth

A long Text to the IpAddr function allows remote attackers to cause a demial of service (segmentation fault) or achieve unauthenticated rem code execution because of control of registers.

Additional Information

The value of IpAddr under /cgi-bin/app-staticIP.asp function is not getting sanitized, so passing too much junk data to the IpAddr parameter triggers to the SIGSEGV segmentation fault in device, post research it was possible to control the registers. A Successful exploitation could leads to unauthenticated remote code execution on device.

[Affected Component]
TpAddr function on page /cgi-bin/app-staticIP.asp inside the boa web server implementation.

[Attack Type]

[Impact Code execution] true

[Impact Denial of Service] true

[Attack Vectors] Remote code execution by running the poc.py against the target ip address.

[Vulnerability Type] Buffer Overflow, Exec

--data-binary \$'hEntry0=-1&hEntry1=-1&hEntry2=-1&hEntry3=-1&hEntry4=-1&hEntry5=-1&hEntry6=-1&hEntry7=-1&hEntry8=-1&delete_flac

S'http://device_ip/cgi-bin/app-staticIP.asp'

[Vendor of Product] Shenzhen Skyworth Digital Technology Company Ltd.(http://www.skyworthdigital.com/products)

- * Kaustubh Padwad * Information Security Researcher * kingkaustubh@me.com
- https://s3curityb3ast.github.io/ https://twitter.com/s3curityb3ast



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