



# Merit LILIN Application Note

## Vulnerability Release Highlights of LILIN NVR Firmware

Document A00186

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Dept: Product Management, Taipei

### SVN number 3368 or later for LILIN NVR products

The latest NVR firmware can be found [here](#).

1. Disabled telnetd service port: 12323 (2018-12-04, svn#3290).
2. Updated default ftpd service port: 12321 disabled (2018-12-03, svn#3283).
3. Updated OpenSSL to 1.0.2q (2018-11-26, svn#3252).
4. Updated libupnp to 1.6.21 of CVSS 9.0
5. Disabled echo 7, discard 9, daytime 13, time 37 services handled by inetd (2018-11-26, svn#3256).
6. Updated default Samba service as disable for ports: 137, 138, 139, 445 (2018-11-26, svn#3251).
7. Limited HTTP service port 22988 for local GUI (2018-11-8, svn#3200).
8. Updated default UPNP service (port:49152) disabled (2018-11-2, svn#3182).
9. Modified encryption for /etc/passwd default password, verified by binwalk (2018-11-30, svn#3273)
10. Upgraded TLS to 1.2 version

### SSLScan report

```
yenping@pc15006:~/Hisilicon/NVR3/packages/libupnp [76x55]
連線(C) 編輯(E) 檢視(V) 視窗(W) 選項(O) 說明(H)
[yenping:NVR5832 sslscan-master]# ./sslscan --version
1.11.12
OpenSSL 1.0.2k-fips 26 Jan 2017
OpenSSL version does not support SSLv2
SSLv2 ciphers will not be detected
[yenping:NVR5832 sslscan-master]# mv sslscan sslscan_d
[yenping:NVR5832 sslscan-master]# ./sslscan_d 192.168.5.50
Version: 1.11.12
OpenSSL 1.0.2k-fips 26 Jan 2017

OpenSSL version does not support SSLv2
SSLv2 ciphers will not be detected

Connected to 192.168.5.50

Testing SSL server 192.168.5.50 on port 443 using SNI name 192.168.5.50

  TLS Fallback SCSV:
Server supports TLS Fallback SCSV

  TLS renegotiation:
Session renegotiation not supported

  TLS Compression:
Compression disabled

  Heartbleed:
TLS 1.2 not vulnerable to heartbleed
TLS 1.1 not vulnerable to heartbleed
TLS 1.0 not vulnerable to heartbleed

Supported Server Cipher(s):
Preferred TLSv1.2 256 bits AES256-GCM-SHA384
Accepted TLSv1.2 256 bits AES256-SHA256
Accepted TLSv1.2 256 bits AES256-SHA
Accepted TLSv1.2 256 bits CAMELLIA256-SHA
Accepted TLSv1.2 128 bits AES128-GCM-SHA256
Accepted TLSv1.2 128 bits AES128-SHA256
Accepted TLSv1.2 128 bits AES128-SHA
Accepted TLSv1.2 128 bits SEED-SHA
Accepted TLSv1.2 128 bits CAMELLIA128-SHA
Accepted TLSv1.2 112 bits DES-CBC3-SHA
Accepted TLSv1.2 112 bits IDEA-CBC-SHA
Accepted TLSv1.2 112 bits RC4-SHA
Accepted TLSv1.2 112 bits RC4-MD5

SSL Certificate:
Signature Algorithm: sha256WithRSAEncryption
RSA Key Strength: 2048

Subject: NVR5208E
Issuer: NVR5208E

Not valid before: Nov 1 19:39:53 2018 GMT
Not valid after: Dec 29 19:39:53 2018 GMT
```



### What is SVN

LILIN uses subversion for source code version control. The SVN number indicates the firmware build history of LILIN source code control. The last four digits of LILIN firmware version is LILIN SVN number.

|                   |                              |          |            |
|-------------------|------------------------------|----------|------------|
| NVR3816 Firmware  | Firmware Version 2.0.60.3368 | Select ▼ | 2019-01-24 |
| NVR3216 Firmware  | Firmware Version 3.0.60.3368 | Select ▼ | 2019-01-24 |
| NVR3416 Firmware  | Firmware Version 3.0.60.3368 | Select ▼ | 2019-01-24 |
| NVR3416R Firmware | Firmware Version 3.0.62.3368 | Select ▼ | 2019-01-24 |

### Contact

Contact <http://lilin.zendesk.com> for technical support.  
For more information, visit [www.meritlilin.com](http://www.meritlilin.com).