

```
r = ((r + tB) / 0x989680) % (
2**31)
```

Since we can predict the values of the seeds between two dates, we can reduce the cases from 2^31 to the seconds elapsed between two dates. Let me explain, suppose we know one AP was installed during 2012, regardless of the month, day, etc... Thanks to this method we know we have to check only the keys corresponding to seeds that lie between 0x4EFFA3AD and 0x50E22700. That is:

```
Code:

print genSeed(datetime.datetime(2 012, 1, 1, 0, 0, 0)) #0x4EFFA3AD print genSeed(datetime.datetime(2 print genSeed(datetime.datetime(2 print genSeed(datetime.datetime))
```

There are around 365*24*60*60 = 31536000 seconds in a year (which is more or less 0x50E22700 - 0x4EFFA3AD). Therefore, we have only to check 31536000 keys. That is really easy: we can do it in 26 minutes with GPU acceleration or in 5 hours using only the CPU. Notice that regarding the computing time, this would be the worst case possible. If some attacker knew that a router was recently installed, he could break the password in a few minutes or even seconds!

<u>Vulnerable TP-Link Routers:</u> (Any wireless router made by TP-Link since 2010, I guess)

```
TL-W8151N (V1, V3)
TL-WA730RE (V1, V2*)
TL-WA830RE (V1, V2*)
 TL-WDR3500
 TI -WDR3600
 TL-WDR4300
TL-WDR4300
TL-WR720N
TL-WR740N (V1, V2, V3, V4)
TL-WR741ND (V1, V2, V3*,V4)
TL-WR841N (V1*,V5, V7, V8)
 TL-WR841ND (V3, V5, V7, V8*)
TL-WR641ND (V3, V3, V7, V8)
TL-WR842ND
TL-WR940N (V1, V2)
TL-WR941ND (V2, V3, V4, V5)
TL-WR1043N
 TL-WR1043ND
 TD-VG3511 (V1*)
TD-VG3631
TD-W8901N
TD-W8950ND
TD-W8951NB (V3*,V4, V5)
TD-W8951ND (V1, V3, V4, V5)
TD-W8961ND (V1, V3, V4, V5)
TD-W8961NB (V1, V2, V3*)
TD-W8961ND
TD-W8961ND
TD-W8968
 TD-W8970
 TD-W340G
 TD-W300KII
TD-W8960N
TL-WR2543ND
 *Possibly vulnerable. I could not
download the assistant to verify it.
```

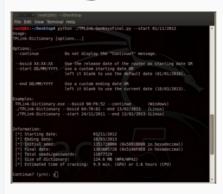
Download tool:

http://www.mediafire.com/? gor6b9b63nu6020

Here is the program to generate dictionaries for cracking these routers. It has been tested by other people, and we managed to crack the WPA2 password of 3 TP-Link APs. Of course these tests were made with our **own routers**. Tell me what you think about this program, feel free to post your "success stories", and report any bugs you found, please.

I have included versions for Windows and Linux as well as the source code of the program. Run the program TPLink-GenKeysFinal and follow the instructions. At the moment it is useless to specify the BSSID since I haven't focused on the list of release dates yet. My suggestion is to use the default arguments until we got the complete list of release dates for each router. If you know certainly the model of the AP, then pass the release date of the router to the program in the format --start DD/MM/YYYYY.

I have also included some utilities I made to test this vulnerability. If you are interested about the details of this issue, you should take a look at them and read all I wrote on my blog about this [ES]. I don't really want to rewrite everything in English since I guess many of you are not really interested in reading all this information, but I hope Google Translator can make this a bit more understandable.



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