CVE-2020-13391: Tenda Vulnerability

Vendor of the products: Tenda Reported by: Joel CVE details Affected products:

1 AC9 V1.0 V15.03.05.19(6318) CN 2 AC9 V3.0 V15.03.06.42 multi 3 AC15 V1.0 V15.03.05.19 multi TD01 4 AC18 V15.03.05.19(6318) CN 5 AC6 V1.0 V15.03.05.19_multi_TD01

An issue was discovered on Tenda AC6 V1.0 V15.03.05.19 multi TD01, AC9 V1.0 V15.03.05.19(6318), AC9 V3.0 V15.03.06.42 multi, AC15 V1.0 V15.03.05.19 multi TD01, AC18 V15.03.05.19(6318) devices. There is a buffer overflow vulnerability in the router's web server – Intpd. While processing the speed_dir parameter for a post request, the value is directly used in a sprint for a local variable placed on the stack, which overrides the return address of the function. The attackers can construct a payload to carry out arbitrary code attacks.

POC

This PoC can result in a Dos.

Given the vendor's security, we only provide parts of the HTTP.

```
1 POST /goform/SetSpeedMan NTTF/1.1
2 Nost: 192.164.18.13.1
3 Nost: 192.164.18.13.1
3 X-Requested-With: NOLHETPRequest
3 X-Requested-With: NOLHETPRequest
6 Content-Type: application/n-ww-form-urlencoded
6 Content-Type: application/n-ww-form-urlencoded
7 Recept-Language: en-US, angel.9
9 Connection: close
9 Connection: close
1 Conclusing patenting: 10-18 angel.9
9 Connection: close
1 Conclusing patenting: 10-18 angel.9
  19 Control | Parameter | Param
```

ARM

```
MIPS
                                                | Sa0, 0x/0+wp($fp) # wp | Sy0, 0x510000 | Sy0, 0x5100000 | Sy0, 0x5100000
```

```
loc_471714:
                                                         li $v0, 0x510000
addiu $v0, (aErrcodeDSpeedD - 0x510000) # "{\"errCode\":%d,\"speed_dir\":%s}"
addiu $v1, $fp, 0x70+ret_buf
move $a0, $v1 # s
move $a1, $v0 # format
lv $a2, 0x70+srec_ode($fp)
lw $a3, 0x70+speed_dir($fp)
la $v0, sprintf
move $t9, $v0
jalr $t9; $v0
jalr $t9; $v0
jalr $t9; $printf
nop
lv $gp, 0x70+var_60($fp)
addiu $v0. $fn. 0x70+ret huf
```

Posted by Joel vulnerability

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About Me



Hi, I'm Joel!

To see what I'm working on, check out my GitHub page $\underline{\text{here.}}$

- CVE-2020-13394: Tenda Vulnerability CVE-2020-13393: Tenda Vulnerability CVE-2020-13392: Tenda Vulnerability CVE-2020-13391: Tenda Vulnerability CVE-2020-13391: Tenda Vulnerability

GitHub Repos

@joel-malwarebenchmark on GitHub

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