CVE-2020-13394: 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 – httpd. While processing the list parameter for a post request, the value is directly used in a strepy to 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

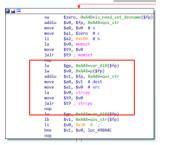
This PoC can result in a Dos.

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

```
ARM
```

```
v25 = (char *)get_param(al, (int)*list*, (int)&unk_E09C4);
wb 70554(v25, (int)*bandwidth.mode*, 0xAu);
v8 = 0;
u = a.
else
{
  memset(&dest, 0, 0x100u);
strcpy(&dest, src);
if ( dest == 50 )
  sscanf(&dest, "%[^\r]\r%[^\r]\r%[^\r]\r%s", &v31, &v41, &v32, &v36); v59 = 1;
  }
if ( atoi((const char *)&v32) || atoi((const char *)&v36) )
```

```
$2cro, 0x304rer_codc($fp)
$a0, 0x304ner_codc($fp)
$a0, 0x304ne($fp) # wp
$v0, 0x510000
$a1, $v0, (alist - 0x510000) # "list"
$v0, 0x510000
$a2, $v0, (unk_510184 - 0x510000) # defaultGetValue
$v0, websGetVar
$t9, $v0
$t9; websGetVar
sw
lw
li
addiu
li
addiu
la
move
jalr
                        Sep, 0x90+var 70($fp)
$v0, 0x90+list($fp)
$v0, 0x90+list($fp) # list
$v0, 0x1000
$a1, $v0, 0x1000
$a1, $v0, (aBandwidthMode_0 - 0x510000) # "bandwidth.mode"
$v0, $er(Ox91ii).int
$t5, $v0
$t9; $er(Ox91ii).int
nop
lw
sw
li
addiu
li
la
move
jalr
                          $gp. 0x90+var 70($fp)
```



Posted by Joel <u>vulnerability</u>





To see what I'm working on, check out my GitHub page here.

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GitHub Repos

• joel-malwarebenchmark.github.io

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