

CVE-2020-13393: Tenda Vulnerability

Vendor of the products: Tenda

Reported by: Joel

CVE-2020-13393 [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

```

Overview

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 `deviceId` and `time` parameters for a post request, the value is directly used in a `strcpy` 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.

[illegible]

Details

ARM

```

94 v44 = 0;
95 src = (char *)get_param(v7, (int)"deviceId", (int)&unk_EC1D4);
96 v34 = (char *)get_param(v7, (int)"enable", (int)&unk_EC1D4);
97 nprtr = (char *)get_param(v7, (int)"time", (int)&unk_EC1D4);
98 v40 = (char *)get_param(v7, (int)url_enable, (int)&unk_EC1D4);
99 v39 = (char *)get_param(v7, (int)"url", (int)&unk_EC1D4);
100 v38 = (char *)get_param(v7, (int)"day", (int)&unk_EC1D4);
101 v37 = get_param(v7, (int)"block", (int)&unk_EC1D4);
102 v36 = get_param(v7, (int)"connectType", (int)&unk_EC1D4);
103 v35 = (char *)get_param(v7, (int)"limit_type", (int)"1");
104 v34 = get_param(v7, (int)"deviceName", (int)&unk_EC1D4);
105 if (v34)
106 {
107     sub_C5240((int)v34, (int)src);
108     if ("nprtr"
109
110 }
111 ptr = malloc(0x2540);
112 memset(ptr, 0, 0x2540);
113 strcpy((char *)ptr + 2, src);
114 v32 = (char *)get_param(v7, (int)"url", (int)&unk_EC1D4);
115 memset(v32, 0, 0x2540);
116 SetValue("parent.global.en", "1");
117 SetValue("filter.url.en", "1");
118 SetValue("filter.mac.en", "1");
119 strcpy((char *)v32 + 2, src);
120 strcpy((char *)v32 + 34, nprtr);
121 if (v38)
122 {
123     v38;
124     "%d,%d,%d,%d,%d,%d,%d,%d",
125     &v27,

```

MIPS

```

lw      $a0, 0x0+0($fp) # w0
li      $t0, 1
addiu   $a1, $a0, (deviceid_t) 0x200000 # "deviceid"
li      $a2, 1
addiu   $a3, $a0, (usb_3C1318_t) 0x200000 # defaultValue
lw      $a4, subdevice_t
move    $t0, $t0
jalr    $t0, subdevice_t

lw      $fp, 0x0+var_30($fp)

move    $a0, 0x0+var_30($fp)
li      $a1, 0x0+0x0+0($fp)
lw      $a2, 0x0+0($fp) # w0
addiu   $a3, $a0, (deviceid_t) 0x200000 # "deviceid"
li      $a4, 1
addiu   $a5, $a0, (usb_3C1318_t) 0x200000 # defaultValue
lw      $a6, subdevice_t
move    $t0, $t0
jalr    $t0, subdevice_t

lw      $fp, 0x0+var_30($fp)
lw      $a0, 0x0+0x0+0($fp)

par nop # 0x0+0x0+0($fp)
lw      $fp, 0x0+0x0+var_30($fp)
lw      $a0, 0x0+0x0+res_pc_info($fp)
addiu   $a0, 2
move    $a1, $a0
lw      $a2, 0x0+0x0+deviceid($fp)
lw      $a3, $a0
lw      $a4, $a1 # dest
move    $a1, $a0 # src
lw      $a2, $a0+strcopy
move    $t0, $a0
jalr    $t0, $a0+strcopy
nop

lw      $fp, 0x0+0x0+var_30($fp)
lw      $a0, 0x0+0x0+res_pc_info($fp)
addiu   $a0, $a0, 0x2
lw      $a1, 0x0+0x0+time($fp)
lw      $a2, $a0 # dest
move    $a1, $a0 # src
lw      $a2, $a0+strcopy
move    $t0, $a0
jalr    $t0, $a0+strcopy
nop
li      $a0, 0x0+0x0+var_30($fp)

```

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