

# CVE Report - Buffer Overflow Vulnerability in Tenda w6\_s\_v1.0.0.4\_510\_en Routers

## Vulnerability Title

## Buffer Overflow Vulnerability in w6\_s\_v1.0.0.4\_510\_en Router.

## Vulnerability Description

Tenda w6\_s\_v1.0.0.4\_510\_en devices have a Buffer Overflow vulnerability in the set\_local\_time function, which allows remote attackers to cause web server crash via parameter time passed to the binary through a POST request.

## POC

[illegible]

```
requests.post(target_url, headers = target_headers, data = p1,  
verify = False, timeout = 1)
```

## Cause Analysis

The websGetVar function accepts external data. The user affects s by setting the time value. After sscanf, it enters v9 cause crash.

```
int __fastcall set_local_time(int a1)  
{  
    int v1; // $v1  
    int result; // $v0  
    int v3; // $v0  
    time_t v4; // [sp+28h] [+28h]  
    int v5; // [sp+2Ch] [+2Ch]  
    FILE *stream; // [sp+30h] [+30h]  
    char *s; // [sp+38h] [+38h]  
    struct tm v8; // [sp+3Ch] [+3Ch] BYREF  
    _DWORD v9[8]; // [sp+68h] [+68h] BYREF  
    _DWORD v10[8]; // [sp+88h] [+88h] BYREF  
    _DWORD v11[8]; // [sp+A8h] [+A8h] BYREF  
    _DWORD v12[8]; // [sp+C8h] [+C8h] BYREF  
    _DWORD v13[8]; // [sp+E8h] [+E8h] BYREF  
    _DWORD v14[8]; // [sp+108h] [+108h] BYREF  
    char v15[128]; // [sp+128h] [+128h] BYREF  
    time_t v16; // [sp+1A8h] [+1A8h] BYREF  
    struct timeval v17; // [sp+1ACh] [+1ACh] BYREF  
  
    memset(v9, 0, sizeof(v9));  
    memset(v10, 0, sizeof(v10));  
    memset(v11, 0, sizeof(v11));  
    memset(v12, 0, sizeof(v12));  
    memset(v13, 0, sizeof(v13));  
    memset(v14, 0, sizeof(v14));  
    memset(v15, 0, sizeof(v15));  
    v5 = 0;  
    s = (char *)websGetVar(a1, "time", &dw004A283C);  
    v1 = sscanf(s, "%[^;];%[^;];%[^;];%[^;];%[^;];%[^;];", v9, v10, v11, v12, v13, v14);
```

## Attack effect

```
connect to server failed.  
web [172.17.0.1] login time expired.  
Segmentation fault (core dumped)  
# █
```

## Suggested Fix

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It is recommended to update to the version of w6\_s\_v1.0.0.4\_510\_en router to fix this vulnerability.