

adme.md

# D-Link DIR878(1.02B05) has a Incorrect Access Control Vulnerability

#### **Product**

- $1. \ product information: http://support.dlink.com.cn:9000/ProductInfo.aspx?m=DIR-878$
- 2. firmware download: http://support.dlink.com.cn:9000/download.ashx?file=6519

#### **Affected version**

1.02B05

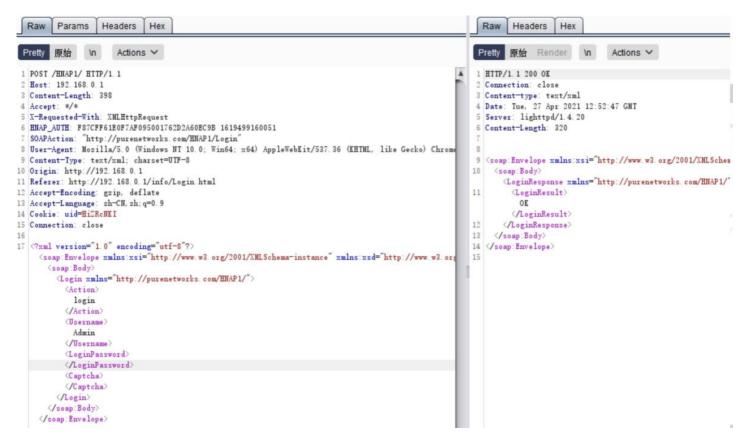
## **Vulnerability**

An issue was discovered on D-Link DIR-878 1.02B05 devices. At the /HNAP1 URI, an attacker can log in with a blank password. This can lead to **incorrect access control** vulnerabilities.

The DIR-878 authentication process is SOAP authentication. This problem occurs during the login request for SOAP.

```
1 int __fastcall sub_4206C0(int a1)
           int v1; // $v0
           int v2; // $v0
           int v3; // $50
           int v4; // $v0
           int result; // $v0
           int i; // [sp+20h] [-1A0h]
          int v7; // [sp+24h] [-19Ch
int v8; // [sp+2Ch] [-194h]
           BYTE *v9; // [sp+34h] [-18Ch]
int v10; // [sp+38h] [-188h]
   12
          char v11[64]; // [sp+3Ch] [-184h] BYREF
char v12[64]; // [sp+7Ch] [-144h] BYREF
char v13[64]; // [sp+BCh] [-104h] BYREF
char v14[64]; // [sp+FCh] [-C4h] BYREF
   16
           char v15[132]; // [sp+13Ch] [-84h] BYREF
   18
           memset(v11, 0, sizeof(v11));
• 19
20
          memset(v12, 0, sizeof(v12));
0 21
           memset(v13, 0, sizeof(v13));
0 22
          memset(v14, 0, sizeof(v14));
memset(v15, 0, 128);
0 23
0 24
           if ( sub_421A44(a1) )
           {
0 26
              sub_424C88(a1, 5);
• 27
              result = 1;
   28
   29
           else
   30
            webGetVarString(a1, (int)"/Login/Action");
v8 = webGetVarString(a1, (int)"/Login/Username");
webGetVarString(a1, (int)"/Login/LoginPassword");
v9 = (_BYIE_")webGetVarString(a1, (int)"/Login/Captcha'
v10 = webGetVarString(a1, (int)"/Login/PrivateLogin");
   31
• 32
.
   33
                                                                                                                           vuln
34
                                                                       (int)"/Login/Captcha");
0 35
              v1 = nvram_safe_get("CAPTCHA");
if ( atoi(v1) || *v9 )
   36
```

### PoC





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