Huawei E5186 AJAX API
Hacker's ramblings

Huawei E5186 AJAX API

Monday, March 16. 2015

As I wrote in my **E5186 review**, there is a very good API for accessing the box.

All responses start with a `<?xml version="1.0" encoding="UTF-8"?>`. API-calls have `<response>` as the root element, config-calls have `<config>` as the root element. Some of the API-calls can be set (POST) or get (GET). Config cannot be set (POST), only read (GET).

URI	GET / POST	Login only	Description	Sample

/config/global/config.xml	GET		Config	`<homepage/>`
				`<default_language>de-de</default_language>`
				`<dialogdisapear>3000</dialogdisapear>`
				`<tip_disapear>3000</tip_disapear>`
				`<update_interval>3000</update_interval>`
				`<ap_station_enabled>0</ap_station_enabled>`
				`<title>Mobile Broadband</title>`
				`<login>1</login>`
				`<autoapn_enabled>0</autoapn_enabled>`
				`<footer>1</footer>`
				`<battery_enabled>0</battery_enabled>`
				`<continue_button>1</continue_button>`
				`<special_redirect>1</special_redirect>`
				`<menu_number>5</menu_number>`
				`<roam_warn_enabled>1</roam_warn_enabled>`
				`<hotlinks>`
				`<enable>1</enable>`
				`<items>`
				`<item/>`
				`<item/>`
				`<item/>`
				`</items>`
				`</hotlinks>`
				`<appmanagements>`
				`<enabled>0</enabled>`
				`<mobileWifi>`
				`<android>http://consumer.huawei.com/minisite/mobilewifiapp/apk/HuaweiMobileWiFi.apk</android>`
				`<ios>https://itunes.apple.com/app/huawei-mobile-wifi/id546979875?ls=1&mt=8</ios>`
				`<windows/>`
				`</mobileWifi>`
				`<mobileDoctor>`
				`<windowsOS>http://consumer.huawei.com/en/support/downloads/detail/index.htm?id=16921</windowsOS>`
				`<macOS/>`
				`<linuxOS/>`
				`</mobileDoctor>`
				`</appmanagements>`
				`<commend_enable>0</commend_enable>`
				`<connection>`
				`<enable>1</enable>`
				`<connectionstatus>1</connectionstatus>`
				`</connection>`
				`<position_info>`
				`<offset>0</offset>`
				`<offset_ie6>0</offset_ie6>`
				`</position_info>`
				`<menu>`
				`<home>home</home>`
				`<statistic>statistic</statistic>`
				`<commend>commend</commend>`
				`<sms>`
				`<inbox>smsinbox</inbox>`
				`<sent>smssent</sent>`
				`<drafts>smsdrafts</drafts>`
				`<sms_center_number>messagesettings</sms_center_number>`
				`</sms>`
				`<update>`
				`<update_online>update</update_online>`
				`<update_local>update_local</update_local>`
				`</update>`
				`<ussd>`
				`<prepaid>`
				`<pre_service_title>activate_internet_service</pre_service_title>`
				`<pre_fun_balanceInquiry>balanceInquiry</pre_fun_balanceInquiry>`
				`<pre_fun_charge>charge</pre_fun_charge>`
				`<pre_fun_general>general</pre_fun_general>`
				`</prepaid>`
				`<postpaid>`
				`<post_service_title>activate_internet_service</post_service_title>`
				`<post_fun_balanceInquiry>balanceInquiry</post_fun_balanceInquiry>`
				`<post_fun_charge>charge</post_fun_charge>`
				`<post_fun_general>general</post_fun_general>`
				`</postpaid>`
				`</ussd>`
				`<settings>`
				`<quick_setup>quicksetup</quick_setup>`
				`<dialup>`
				`<mobileconnection>mobileconnection</mobileconnection>`
				`<profilesmgr>profilesmgr</profilesmgr>`
				`<mobilenetworksettings>mobilenetworksettings</mobilenetworksettings>`
				`</dialup>`
				`<internet>`
				`<wifinetworks>wifinetworks</wifinetworks>`
				`<wifipriority>wifipriority</wifipriority>`
				`<stationwps>stationwps</stationwps>`

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URI	GET / POST	Login only	Description	Sample
				```</internet><wlan><wlanbasicsettings>wlanbasicsettings</wlanbasicsettings><wlanadvanced>wlanadvanced</wlanadvanced><wlanmacfilter>wlanmacfilter</wlanmacfilter><wps>wps</wps><dhcp>dhcp</dhcp></wlan><voip><serverbasic>serverbasic</serverbasic><voipinformation>voipinformation</voipinformation><sipbasic>sipbasic</sipbasic><speeddial>speeddial</speeddial><sipadvance>sipadvance</sipadvance><voiceadvanced>voiceadvanced</voiceadvanced><sipvoicecodec>sipvoicecodec</sipvoicecodec></voip><security><pincodemanagement>pincodemanagement</pincodemanagement><firewallswitch>firewallswitch</firewallswitch><macfilter>macfilter</macfilter><lanipfilter>lanipfilter</lanipfilter><virtualserver>virtualserver</virtualserver><dmzsettings>dmzsettings</dmzsettings><nat>nat</nat><ddns>ddns</ddns><bridgemode>bridgemode</bridgemode><urlfilter>urlfilter</urlfilter></security><cbssettings>cbssettings</cbssettings><system><deviceinformation>deviceinformation</deviceinformation><modifypassword>modifypassword</modifypassword><diagnosis>diagnosis</diagnosis><restore>restore</restore><reboot>reboot</reboot><systemsettings>systemsettings</systemsettings></system></settings></menu>```

URI	GET / POST	Login only	Description	Sample
/config/global/net-type.xml	GET		Config ?	```<networktypes><index>001</index> <networktype></networktype></networktypes> <networktypes><index>002</index> <networktype></networktype></networktypes> <networktypes><index>003</index> <networktype></networktype></networktypes> <networktypes><index>004</index> <networktype></networktype></networktypes> <networktypes><index>005</index> <networktype></networktype></networktypes> <networktypes><index>006</index> <networktype></networktype></networktypes> <networktypes><index>007</index> <networktype></networktype></networktypes> <networktypes><index>008</index> <networktype></networktype></networktypes> <networktypes><index>009</index> <networktype></networktype></networktypes> <networktypes><index>010</index> <networktype></networktype></networktypes> <networktypes><index>011</index> <networktype></networktype></networktypes> <networktypes><index>012</index> <networktype></networktype></networktypes> <networktypes><index>013</index> <networktype></networktype></networktypes> <networktypes><index>015</index> <networktype></networktype></networktypes> <networktypes><index>017</index> <networktype></networktype></networktypes> <networktypes><index>018</index> <networktype></networktype></networktypes> <networktypes><index>019</index> <networktype></networktype></networktypes> <networktypes><index>021</index> <networktype></networktype></networktypes> <networktypes><index>022</index> <networktype></networktype></networktypes> <networktypes><index>023</index> <networktype></networktype></networktypes> <networktypes><index>024</index> <networktype></networktype></networktypes> <networktypes><index>025</index> <networktype></networktype></networktypes> <networktypes><index>026</index> <networktype></networktype></networktypes> <networktypes><index>027</index> <networktype></networktype></networktypes> <networktypes><index>028</index> <networktype></networktype></networktypes> <networktypes><index>029</index> <networktype></networktype></networktypes> <networktypes><index>030</index> <networktype></networktype></networktypes> <networktypes><index>031</index> <networktype></networktype></networktypes> <networktypes><index>032</index> <networktype></networktype></networktypes> <networktypes><index>033</index> <networktype></networktype></networktypes> <networktypes><index>034</index> <networktype></networktype></networktypes> <networktypes><index>035</index> <networktype></networktype></networktypes> <networktypes><index>036</index> <networktype></networktype></networktypes> <networktypes><index>041</index> <networktype></networktype></networktypes> <networktypes><index>042</index> <networktype></networktype></networktypes> <networktypes><index>043</index> <networktype></networktype></networktypes> <networktypes><index>044</index> <networktype></networktype></networktypes> <networktypes><index>045</index> <networktype></networktype></networktypes> <networktypes><index>046</index> <networktype></networktype></networktypes> <networktypes><index>061</index> <networktype></networktype></networktypes> <networktypes><index>062</index> <networktype></networktype></networktypes> <networktypes><index>063</index> <networktype></networktype></networktypes> <networktypes><index>064</index> <networktype></networktype></networktypes> <networktypes><index>065</index> <networktype></networktype></networktypes> <networktypes><index>101</index> <networktype></networktype></networktypes>```
/config/pcassistant/config.xml	GET			```<!-- 特性开关(要增加这个开关，与其他模块统一) --> <enable>0</enable> <!-- PC助手页面链接地址 --> <winpath>http://www.huaweidevice.com/resource/mini/201105202018/bolt-card/setup_win.exe</winpath> <macpath>http://www.huaweidevice.com/resource/mini/201105202018/bolt-card/setup_mac.zip</macpath> <upgradepath>http://support.microsoft.com/hotfix/KBHotfix.kbnum=945436kbln=zh-cn</upgradepath>```

URI	GET / POST	Login only	Description	Sample

/config/global/languagelist.xml	GET			`<languages>`
				`<!-- UI显示的语言列表 -->`
				`<language>de-de</language>`
				`<language>en-us</language>`
				`</languages>`
				`<privacy_policy_url>`
				`<default_url>http://consumer.huawei.com/en/privacy-policy/index.htm</default_url>`
				`<en_us>http://consumer.huawei.com/en/privacy-policy/index.htm</en_us>`
				`<zh_cn>http://consumer.huawei.com/cn/privacy-policy/index.htm</zh_cn>`
				`</privacy_policy_url>`
				
				`<usermanual_language>`
				`<default_language>de-de</default_language>`
				`<support_language>`
				`<language>en-us</language>`
				`<language>de-de</language>`
				`</support_language>`
				`</usermanual_language>`

/config/deviceinformation/config.xml	GET			`<devicename>1</devicename>`
				`<serialnumber>0</serialnumber>`
				`<imei>1</imei>`
				`<imsi>1</imsi>`
				`<iccid>0</iccid>`
				`<msisdn>1</msisdn>`
				`<hardwareversion>1</hardwareversion>`
				`<softwareversion>1</softwareversion>`
				`<webuiversion>1</webuiversion>`
				`<macaddress1>1</macaddress1>`
				`<macaddress2>0</macaddress2>`
				`<productfamily>0</productfamily>`
				`<classify>0</classify>`
				`<wanipaddress>1</wanipaddress>`
				`<wanipv6address>0</wanipv6address>`
				`<esn>0</esn>`
				`<meid>0</meid>`
				`<pci>0</pci>`
				`<sc>0</sc>`
				`<cell_id>0</cell_id>`
				`<rsrq>0</rsrq>`
				`<rsrp>0</rsrp>`
				`<rssi>0</rssi>`
				`<sinr>0</sinr>`
				`<rscp>0</rscp>`
				`<ecio>0</ecio>`

/config/webuicfg/config.xml	GET			`<lanipfilter>`
				`<wan>1</wan>`
				`<number>16</number>`
				`<lan_enable>1</lan_enable>`
				`<protocol_imcp>1</protocol_imcp>`
				`</lanipfilter>`
				`<specialapplication>`
				`<number>16</number>`
				`</specialapplication>`
				`<virtualserver>`
				`<number>16</number>`
				`</virtualserver>`
				`<firewallwanportpingswitch_enable>1`
				`</firewallwanportpingswitch_enable>`
				`<urlfilter><number>16</number></urlfilter>`
				`<dialog_new_version>1</dialog_new_version>`
				`<install_processbar_enable>1`
				`</install_processbar_enable>`
				`<install_processbar_speed>1`
				`</install_processbar_speed>`

/api/cradle/status-info	GET			`<cradlestatus>0</cradlestatus>`
				`<connectstatus>902</connectstatus>`
				`<connectionmode>5</connectionmode>`
				`<currenttime>0</currenttime>`
				`<macaddress>38:F8:89:38:F8:89</macaddress>`
				`<ipaddress></ipaddress>`
				`<netmask></netmask>`
				`<gateway></gateway>`
				`<primarydns></primarydns>`
				`<secondarydns></secondarydns>`

/api/device/autorun-version	GET		Radio hardware version?	`<Version>22.001.07.00.03</Version>`

/api/device/basic_information	GET		LTE, customer premises equipment	`<productfamily>LTE</productfamily>`
				`<classify>cpe</classify>`
				`<multimode>0</multimode>`

/api/device/control	POST		Reboot the device	`<Control>1</Control>`
/api/device/device-feature-switch	GET			`<coulometer_enabled>0</coulometer_enabled>` `<copyright_enabled>1</copyright_enabled>`

/api/device/information	GET		Android-side version information	`<DeviceName>E5186s-22a</DeviceName>`
				`<SerialNumber>W</SerialNumber>`
				`<Imei>8643910</Imei>`
				`<Imsi>2</Imsi>`
				`<Iccid>8</Iccid>`
				`<Msisdn>041</Msisdn>`
				`<HardwareVersion>CL1E5175HM</HardwareVersion>`
				`<SoftwareVersion>21.298.00.00.55</SoftwareVersion>`
				`<WebUIVersion>16.100.02.00.03</WebUIVersion>`
				`<MacAddress1>38:F8:89:38:F8:89</MacAddress1>`
				`<MacAddress2></MacAddress2>`
				`<ProductFamily>LTE</ProductFamily>`
				`<Classify>cpe</Classify>`
				`<supportmode></supportmode>`
				`<workmode>LTE</workmode>`

/api/device/signal	GET		Cell ID and signal quality parameters: RSRQ, RSRP, RSSI, SINR, RSCP, Ec/Io	`<pci>82</pci>`
				`<sc></sc>`
				`<cell_id>551</cell_id>`
				`<rsrq>-6dB</rsrq>`
				`<rsrp>-102dBm</rsrp>`
				`<rssi>-89dBm</rssi>`
				`<sinr>3dB</sinr>`
				`<rscp></rscp>`
				`<ecio></ecio>`
				`<mode>7</mode>`

/api/device/usb-tethering-switch	?			

/api/dialup/connection	GET			`<RoamAutoConnectEnable>0</RoamAutoConnectEnable>`
				`<MaxIdelTime>600</MaxIdelTime>`
				`<ConnectMode>0</ConnectMode>`
				`<MTU>1500</MTU>`
				`<auto_dial_switch>1</auto_dial_switch>`

/api/dialup/dial	?			
/api/dialup/mobile-dataswitch	GET			`<dataswitch>1</dataswitch>`

URI	GET / POST	Login only	Description	Sample

/api/global/module-switch	GET		Features of the router	`<ussd_enabled>0</ussd_enabled>`
				`<bbou_enabled>1</bbou_enabled>`
				`<sms_enabled>1</sms_enabled>`
				`<sdcard_enabled>0</sdcard_enabled>`
				`<wifi_enabled>1</wifi_enabled>`
				`<statistic_enabled>1</statistic_enabled>`
				`<help_enabled>1</help_enabled>`
				`<stk_enabled>0</stk_enabled>`
				`<pb_enabled>0</pb_enabled>`
				`<dlna_enabled>0</dlna_enabled>`
				`<ota_enabled>0</ota_enabled>`
				`<wifioffload_enabled>0</wifioffload_enabled>`
				`<cradle_enabled>1</cradle_enabled>`
				`<multssid_enable>1</multssid_enable>`
				`<ipv6_enabled>0</ipv6_enabled>`
				`<monthly_volume_enabled>1</monthly_volume_enabled>`
				`<powersave_enabled>0</powersave_enabled>`
				`<sntp_enabled>0</sntp_enabled>`
				`<dataswitch_enabled>1</dataswitch_enabled>`
				`<ddns_enabled>0</ddns_enabled>`
				`<sambashare_enabled>0</sambashare_enabled>`
				`<poweroff_enabled>0</poweroff_enabled>`
				`<fw_macfilter_enabled>1</fw_macfilter_enabled>`
				`<ecomode_enabled>1</ecomode_enabled>`
				`<zonetime_enabled>0</zonetime_enabled>`
				`<diagnosis_enabled>1</diagnosis_enabled>`
				`<localupdate_enabled>1</localupdate_enabled>`
				`<cbs_enabled>0</cbs_enabled>`
				`<qrcode_enabled>0</qrcode_enabled>`
				`<charger_enbaled>0</charger_enbaled>`

/api/host/info	POST		Web-admin client information for the router	`<Time>20150315223426</Time>`
				`<Timezone>GMT+02:00</Timezone>`
				`<Platform>Win32</Platform>`
				`<PlatformVer>Mozilla/5.0 (Windows NT 6.1; WOW64; rv:36.0) Gecko/20100101 Firefox/36.0</PlatformVer>`
				`<Navigator>5.0 (Windows)</Navigator>`
				`<NavigatorVer>Mozilla/5.0 (Windows NT 6.1; WOW64; rv:36.0) Gecko/20100101 Firefox/36.0</NavigatorVer>`

/api/language/current-language	GET		Selected language. There is a list of supported languages at /config/global/languagelist.xml	`<CurrentLanguage>en-us</CurrentLanguage>`

/api/monitoring/check-notifications	GET			`<UnreadMessage>0</UnreadMessage>`
				`<SmsStorageFull>0</SmsStorageFull>`
				`<OnlineUpdateStatus>14</OnlineUpdateStatus>`

/api/monitoring/converged-status	GET		SIM info	`<SimState>257</SimState>`
				`<SimLockEnable>0</SimLockEnable>`
				`<CurrentLanguage>en-us</CurrentLanguage>`

/api/monitoring/status	GET			`<ConnectionStatus>901</ConnectionStatus>`
				`<WifiConnectionStatus></WifiConnectionStatus>`
				`<SignalStrength></SignalStrength>`
				`<SignalIcon>3</SignalIcon>`
				`<CurrentNetworkType>101</CurrentNetworkType>`
				`<CurrentServiceDomain>3</CurrentServiceDomain>`
				`<RoamingStatus>0</RoamingStatus>`
				`<BatteryStatus></BatteryStatus>`
				`<BatteryLevel></BatteryLevel>`
				`<BatteryPercent></BatteryPercent>`
				`<simlockStatus>0</simlockStatus>`
				`<WanIPAddress>37.33.207.127</WanIPAddress>`
				`<WanIPv6Address></WanIPv6Address>`
				`<PrimaryDns>62.241.198.245</PrimaryDns>`
				`<SecondaryDns>62.241.198.246</SecondaryDns>`
				`<PrimaryIPv6Dns></PrimaryIPv6Dns>`
				`<SecondaryIPv6Dns></SecondaryIPv6Dns>`
				`<CurrentWifiUser>0</CurrentWifiUser>`
				`<TotalWifiUser>64</TotalWifiUser>`
				`<currenttotalwifiuser>64</currenttotalwifiuser>`
				`<ServiceStatus>2</ServiceStatus>`
				`<SimStatus>1</SimStatus>`
				`<WifiStatus>0</WifiStatus>`
				`<CurrentNetworkTypeEx>101</CurrentNetworkTypeEx>`
				`<maxsignal>5</maxsignal>`
				`<wifiindooronly>0</wifiindooronly>`
				`<wififrequence>0</wififrequence>`
				`<classify>cpe</classify>`
				`<flymode>0</flymode>`
				`<cellroam>1</cellroam>`
				`<ltecastatus>0</ltecastatus>`

/api/monitoring/traffic-statistics	GET		Traffic transferred	`<CurrentConnectTime>243360</CurrentConnectTime>`
				`<CurrentUpload>244020</CurrentUpload>`
				`<CurrentDownload>1135754</CurrentDownload>`
				`<CurrentDownloadRate>0</CurrentDownloadRate>`
				`<CurrentUploadRate>0</CurrentUploadRate>`
				`<TotalUpload>90688300183</TotalUpload>`
				`<TotalDownload>250205129647</TotalDownload>`
				`<TotalConnectTime>10613008</TotalConnectTime>`
				`<showtraffic>1</showtraffic>`

/api/net/current-plmn	GET		Public Land Mobile Network information	`<State>0</State>`
				`<FullName>DNA</FullName>`
				`<ShortName>DNA</ShortName>`
				`<Numeric>24412</Numeric>`
				`<Rat>7</Rat>`

/api/online-update/upgrade-messagebox	GET			`<messagebox>1</messagebox>`

/api/pin/status	GET		Extended SIM information	`<SimState>257</SimState>`
				`<PinOptState>258</PinOptState>`
				`<SimPinTimes>3</SimPinTimes>`
				`<SimPukTimes>10</SimPukTimes>`

/api/redirection/homepage	GET			`<EnableRedirection>0</EnableRedirection>` `<Homepage></Homepage>`
/api/security/bridgemode	?		? Enable bridge-mode	
/api/security/upnp	GET, POST		Query or set Universal Plug and Play setting	`<UpnpStatus>1</UpnpStatus>`
/api/sms/get-cbsnewslist	?			
/api/sms/sms-list	?			

/api/user/login	POST		Log in an admin-user	`<Username>admin</Username>`
				`<Password>-password-hash-</Password>`
				`<password_type>4</password_type>`

/api/user/logout	POST		Log out an already logged in user	`<Logout>1</Logout>`
/api/user/remind	GET			`<remindstate>1</remindstate>`
/api/user/session	?			

URI	GET / POST	Login only	Description	Sample

/api/user/state-login	GET		State = -1 no logged in user Password type = 4 for SHA-256 hashed password with token	`<State>-1</State>`
				`<Username></Username>`
				`<password_type>4</password_type>`

/api/ussd/get	?			
/api/webserver/token	?		Get a new security token	

/api/wlan/basic-settings	GET		WiFi setup information	`<WifiSsid>Huawei5186_2.4</WifiSsid>`
				`<WifiChannel>9</WifiChannel>`
				`<WifiHide>0</WifiHide>`
				`<WifiCountry>ALL</WifiCountry>`
				`<WifiMode>b/g/n</WifiMode>`
				`<WifiRate>0</WifiRate>`
				`<WifiTxPwrPcnt>100</WifiTxPwrPcnt>`
				`<WifiMaxAssoc>32</WifiMaxAssoc>`
				`<WifiEnable>1</WifiEnable>`
				`<WifiFrgThrshld>2346</WifiFrgThrshld>`
				`<WifiRtsThrshld>2347</WifiRtsThrshld>`
				`<WifiDtmIntvl>1</WifiDtmIntvl>`
				`<WifiBcnIntvl>100</WifiBcnIntvl>`
				`<WifiWme>1</WifiWme>`
				`<WifiPamode>0</WifiPamode>`
				`<WifiIsolate>0</WifiIsolate>`
				`<WifiProtectionmode>1</WifiProtectionmode>`
				`<Wifioffenable>1</Wifioffenable>`
				`<Wifiofftime>600</Wifiofftime>`
				`<wifibandwidth>0</wifibandwidth>`
				`<wifiautocountryswitch>0</wifiautocountryswitch>`
				`<WifiRestart>0</WifiRestart>`

/api/wlan/handover-setting	?			
/api/wlan/multi-security-settings	?			
/api/wlan/multi-switch-settings	GET			`<multissidstatus>1</multissidstatus>`
/api/wlan/station-information	?			

/api/wlan/wifi-feature-switch	GET		WiFi features	`<wifi5g_enabled>1</wifi5g_enabled>`
				`<wifiautocountry_enabled>0</wifiautocountry_enabled>`
				`<maxapnum>2</maxapnum>`
				`<isdoublechip>1</isdoublechip>`
				`<acmode_enable>1</acmode_enable>`
				`<stawpsenabled>0</stawpsenabled>`
				`<opennonewps_enable>1</opennonewps_enable>`
				`<stafrequenceenable>0</stafrequenceenable>`
				`<wifi24g_switch_enable>1</wifi24g_switch_enable>`
				`<wifi_dfs_enable>0</wifi_dfs_enable>`

/api/net/net-mode	GET, POST		Mode lock (2G/3G/4G), frequency lock. Bitmask with Huawei values.	`<NetworkMode>03</NetworkMode>`
				`<NetworkBand>3FFFFFFF</NetworkBand>`
				`<LTEBand>800C5</LTEBand>`

All of the API-calls require a valid session cookie set to respond. Some commands require a logged in user for access, some don't. I won't be able to maintain this list, as I don't own an E5186, but I'll update this if I find something interesting.

Later I will publish a tool to allow full bi-directional access.

by **Jari Turkia** in **Huawei** at **20:43** | **Comments (19)** | **Google** | **Share in LinkedIn**

Comments

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Interesting ! As i have a E5372, i'd like to get access to the source code of your tool (allowing bidirectional access)

#1 Arnaud on 2015-04-16 10:45   Comments (3)

> Yes. I will release it momentarily.   Comments (8)
>
> **#1.1** Jari Turkia on 2015-04-22 16:56

Thanks for the info. I have an E3231. Here is a script to login and reboot the device using the API. You will have to fix the indentation because of blog comment formatting.

```python
##########################
#!/usr/bin/env python

from __future__ import print_function

import requests
import re
import hashlib
import base64


def login(baseurl, username, password):
s = requests.Session()
r = s.get(baseurl + "html/index.html")
csrf_tokens = grep_csrf(r.text)

s.headers.update({
'__RequestVerificationToken': csrf_tokens[0]
})

# test token on statistics api
# r = s.get(baseurl + "api/monitoring/statistic-server")

data = login_data(username, password, csrf_tokens[0])
r = s.post(baseurl + "api/user/login", data=data)

s.headers.update({
```

```
'__RequestVerificationToken': r.headers["__RequestVerificationTokenone"]
})

return s


def reboot(baseurl, session):
s.post(baseurl + "api/device/control", data='1')


def grep_csrf(html):
pat = re.compile(r".*meta name=\"csrf_token\" content=\"(.*)\"", re.I)
matches = (pat.match(line) for line in html.splitlines())
return [m.group(1) for m in matches if m]


def login_data(username, password, csrf_token):
def encrypt(text):
m = hashlib.sha256()
m.update(text)
return base64.b64encode(m.hexdigest())

password_hash = encrypt(username + encrypt(password) + csrf_token)

return '%s%s4' % (username, password_hash)


WEB = "http://192.168.1.1/"
USERNAME = "admin"
PASSWORD = "admin"

if __name__ == "__main__":
s = login(WEB, USERNAME, PASSWORD)
reboot(WEB, s)
#######################
```

#2 rvl on 2015-06-02 04:39   Comment (1)

> Thanks for the info. I didn't realize, that POSTing to /api/device/control would do a reboot. I'll add that to the docs.   Comments (8)
>
> **#2.1** Jari Turkia on 2015-06-08 16:57

In fact, these kind of API allow only small changes (POST commands), as the web access allow.

The only way to make some powerful changes seem to send AT commands.
Unfortunately, a lot of commands are proprietary and not documented.   Comments (3)

#3 Arnaud on 2015-06-08 21:53

Is there a way i can assign a permanent IP address to a computer on the network based on its MAC address? it was easily done via the router web-ui in the old B593 router but the feature doesn't seem to exists in this newer **supposedly** more powerful router.

i have the E5186s-22a.

Thanks   Comment (1)

#4 aFriend on 2016-03-15 06:07

> Generally speaking: yes there is. For a static assignment of IPv4-address to happen, you will need a DHCP-server running and on that, your configuration needs to map the given MAC into an IPv4 -address.
>
> Back to reality: if you are in a situation where you'll be needing reliable IPv4-addressing in your own LAN, for godssake, don't mess around with an Huawei router. That's just a cheaply-made cheap box for mobile internet access. It's not a proper server regardless of the power it has. Even a dirt cheap but yet powerful enough RasperryPi could handle that for you. It is a real server.
>
> If your intention is to get a static address via 3G/LTE, then talk to your telco. If your problem is on the IPv6-side, then you'll definitely need a real server.   Comments (8)
>
> **#4.1** Jari Turkia on 2016-04-19 09:53

Hello, I have problem with this router. After firmware update only WiFi and Power shines. Could you help ? Combnation wps and wifi keys are alive, ping too, telnet not but after upgrade still only wifi and power.

#5 Mark on 2016-04-16 20:32   Comment (1)

> Which firmware did you upgrade to which box?
>
> What you're describing sounds like you bricked it.   Comments (8)
>
> **#5.1** Jari Turkia on 2016-04-19 09:21

>> I also have this problem. I did NOT attempt to update my firmware (although I think it may have been set to automatically update). After I got home last weekend, the device was non-functional. Power and WiFi lights are on. Does not broadcast a WiFi SSID. If I connect a PC to its Ethernet port, I cannot access the device's admin page @ 192.168.8.1. Did this thing perhaps update automatically and then managed to corrupt/brick itself?   Comment (1)
>>
>> **#5.1.1** Hex on 2016-04-28 23:21

>>> Read: https://blog.hqcodeshop.fi/archives/289-Huawei-E5186-Firmware-Upgrade-with-Multicast-Upgrade-Tool.html for firmware upgrades.
>>>
>>> It would be possible, that E5186 auto-upgrades itself and gets bricked. I think you're the second person claiming that such a thing could happen.   Comments (8)
>>>
>>> **#5.1.1.1** Jari Turkia on 2016-04-29 06:52

The unit has auto updated to the latest Huawei versions on switch-on.   Comment (1)
#5.1.1.1.1 Deon on 2016-09-15 18:58

Hi, i wanted to find out if there is a API from huawei with no luck and ended up here. trying to access the dialup/dial operation. this is my first couple of hours researching about this. any help would be appreciated   Comment (1)
#6 aluRamb0 on 2016-09-27 23:15

Sorry, I have no clue about Huawei's dial-up option. We don't use those in Finland.   Comments (8)
#6.1 Jari Turkia on 2016-10-14 16:34

Hello!

I have Huawei E5186 router and I am connected to Sonera's LTE-A network. (Bands 3 and 20). Is it anyhow possible to get Huawei report when LTE-A is in action? When I run command /api/net/net-mode I got following:

03 3FFFFFFF 20000800C5

Are there any clue?

I contacted Sonera and they said that they are considering for a possibility to add LTE-A/4G+ icon to the WebUI.
                                                                                Comments (2)
#7 Purnipsi on 2016-10-04 23:17

What you have there is:
Network aquire order (4G/3G/2G): LTE
1) 2G/3G Frequency band preference:
2) 3FFFFFFF = CM_BAND_PREF_ANY
any band: 850,900,1700,1800,1900,2100 MHz
3) 4G Frequency bands used: 0x20000800C5 =
0x1: LTE BC1: 2100 MHz
0x4: LTE BC3: 1800 MHz
0x40: LTE BC7: 2600 MHz
0x80: LTE BC8: 900 MHz
0x80000: LTE BC20: 800 MHz

That has no information about LTE-A being used or not used.   Comments (8)
#7.1 Jari Turkia on 2016-10-14 16:33

Thank you for the information!   Comments (2)
#7.1.1 Purnipsi on 2016-11-06 17:48

Hi , is there a way to enable some router features like ipv6 ?   Comment (1)
#8 moh on 2016-11-29 20:25

No.   Comments (8)
#8.1 Jari Turkia on 2016-12-01 18:25

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