

# AirOS

```
<?php

// airOS-getFile_HTTPS() from Omniflux:
//
// https://community.ubnt.com/t5/airMAX-AC/Login-to-web-interface-with-PHP/m-p/2291860#M29858

// an example of fetching status.cgi from an AF24 (and probably any other
// UBNT radio)
// the output is a bunch of JSON with the current radio stats

// airOS_getFile_HTTPS ($username, $password, $file, $address)
$out = airOS_getFile_HTTPS ("root", "xxxxxxx", "status.cgi", "10.210.48.2");
print $out;

function airOS_getFile_HTTPS ($username, $password, $file, $address)
{
    $ch = curl_init();

    // Setup CURL
    curl_setopt ($ch, CURLOPT_SSL_VERIFYPEER, 0);
    curl_setopt ($ch, CURLOPT_SSL_VERIFYHOST, 0);
    curl_setopt ($ch, CURLOPT_RETURNTRANSFER, 1);
    curl_setopt ($ch, CURLOPT_COOKIEJAR, null);
    curl_setopt ($ch, CURLOPT_HTTPHEADER, Array ('Expect: '));

    // Login AirOS >= 8.5.0+ OR get cookie with session ID for AirOS <
8.5.0
    curl_setopt ($ch, CURLOPT_URL, "https://$address/api/auth");
    curl_setopt ($ch, CURLOPT_POST, 1);
    curl_setopt ($ch, CURLOPT_POSTFIELDS, Array ('username' =>
$username, 'password' => $password));
    curl_setopt ($ch, CURLOPT_HEADER, 1);
    $response = curl_exec ($ch);
    // uncomment to see raw response
    //print "resp: $response\n";
    curl_setopt ($ch, CURLOPT_HEADER, 0);

    // AirOS >= 8.5.0 request and return file

    if (curl_getinfo ($ch, CURLINFO_HTTP_CODE) == 200)
    {
        // Get X-CSRF-ID value
        preg_match ('/X-CSRF-ID: .*/', substr ($response, 0,
curl_getinfo ($ch, CURLINFO_HEADER_SIZE)), $XCSRFID);
    }
}
```

```
curl_setopt ($ch, CURLOPT_URL, "https://$address/$file");
curl_setopt ($ch, CURLOPT_POST, 0);
$retfile = curl_exec ($ch);

curl_setopt ($ch, CURLOPT_URL,
"https://$address/logout.cgi");
curl_setopt ($ch, CURLOPT_HTTPHEADER, Array (trim
($XCSRFID[0]), 'X-AIROS-LUA: 1'));
curl_setopt ($ch, CURLOPT_POST, 1);
curl_setopt ($ch, CURLOPT_POSTFIELDS, Array ());
curl_exec ($ch);
}

// Login failed, try AirOS < 8.5.0 login, request, and return file
else
{
    curl_setopt ($ch, CURLOPT_URL,
"https://$address/login.cgi");
    curl_setopt ($ch, CURLOPT_POST, 1);
    curl_setopt ($ch, CURLOPT_POSTFIELDS, Array ('username' =>
$username, 'password' => $password));
    curl_exec ($ch);

    curl_setopt ($ch, CURLOPT_URL, "https://$address/$file");
    curl_setopt ($ch, CURLOPT_POST, 0);
    $retfile = curl_exec ($ch);
}

curl_close ($ch);

return $retfile;
}

?>
```

```
{
  "chain_names": [
    {
      "number": 1,
      "name": "Chain 0"
    },
    {
      "number": 2,
      "name": "Chain 1"
    }
  ],
  "host": {
    "hostname": "cpe-188192-gal-lab",
    "uptime": 667685,
    "time": "2018-01-26 08:29:59",
    "timestamp": 828344250,
  }
}
```

```
"fwversion": "v8.5.0-cs.36727.180118.1402",
"devmodel": "Rocket Prism 5AC Gen2",
"netrole": "bridge",
"loadavg": 0.129883,
"totalram": 129982464,
"freeram": 89100288,
"temperature": 50,
"cpuload": 39.603962
},
"genuine": "/images/genuine.png",
"services": {
  "dhcpc": false,
  "dhcpd": false,
  "dhcp6d_stateful": false,
  "pppoe": false,
  "airview": 2
},
"firewall": {
  "iptables": false,
  "ebtables": false,
  "ip6tables": false,
  "eb6tables": false
},
"portfw": false,
"wireless": {
  "ssid": "lessinianet.net",
  "mode": "sta-ptmp",
  "compat_11n": 0,
  "hide_essid": 0,
  "apmac": "80:2A:A8:A4:2F:9D",
  "frequency": 5655,
  "center1_freq": 5655,
  "dfs": 1,
  "distance": 14850,
  "security": "WPA2",
  "noisef": -90,
  "txpower": 22,
  "aprepeater": false,
  "rstatus": 5,
  "chanbw": 20,
  "rx_chainmask": 3,
  "tx_chainmask": 3,
  "cac_state": 0,
  "rx_idx": 4,
  "rx_nss": 2,
  "tx_idx": 6,
  "tx_nss": 2,
  "count": 1,
  "polling": {
    "dcap": 57720,
    "ucap": 95680,
```

```
"use": 2,  
"tx_use": 1,  
"rx_use": 1,  
"atpc_status": 0,  
"fixed_frame": false,  
"gps_sync": false  
},  
"sta": [  
  {  
    "mac": "80:2A:A8:A4:2F:9D",  
    "lastip": "0.0.0.0",  
    "signal": -66,  
    "rssi": 30,  
    "noisefloor": -90,  
    "chainrssi": [  
      28,  
      26,  
      0  
    ],  
    "tx_idx": 6,  
    "rx_idx": 4,  
    "tx_nss": 2,  
    "rx_nss": 2,  
    "tx_latency": 0,  
    "distance": 14850,  
    "tx_packets": 0,  
    "tx_lretries": 0,  
    "tx_sretries": 0,  
    "uptime": 157916,  
    "tx_ratedata": [  
      3,  
      0,  
      0,  
      176,  
      14327,  
      102196,  
      156745,  
      178340,  
      0,  
      0  
    ],  
    "stats": {  
      "rx_bytes": 83701813,  
      "rx_packets": 588950,  
      "rx_pps": 11,  
      "tx_bytes": 98347739,  
      "tx_packets": 292160,  
      "tx_pps": 0  
    },  
    "remote": {  
      "hostname": "santuario-Sud0vest",
```

```
"platform": "Rocket 5AC Prism",
"version": "XC.qca955x.v8.5.11.39842.190109.1449",
"uptime": 240246,
"time": "2019-01-12 10:33:00",
"cpuload": 7,
"temperature": 51,
"totalram": 129961984,
"freeram": 81661952,
"netrole": "bridge",
"mode": "ap-ptmp",
"compat_11n": 1,
"signal": -64,
"rssi": 32,
"noisefloor": -87,
"tx_power": 22,
"distance": 14850,
"rx_chainmask": 3,
"chainrssi": [
  30,
  28,
  0
],
"tx_ratedata": [
  2,
  5,
  220,
  3920,
  294380,
  0,
  0,
  0,
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],
"tx_bytes": 139113407571,
"rx_bytes": 9806798900,
"ethlist": [
  {
    "ifname": "eth0",
    "enabled": true,
    "plugged": true,
    "duplex": true,
    "speed": 1000,
    "snr": [
      30,
      30,
      30,
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    ],
    "cable_len": 14
  }
]
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"tx": {  
  "usage": 1,  
  "cinr": 26,  
  "evm": [  
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"hwaddr": "78:8A:20:AD:E4:4C",
"enabled": true,
"mtu": 1500,
"status": {
  "plugged": true,
  "tx_bytes": 126448927,
  "rx_bytes": 32773228,
  "tx_errors": 0,
  "rx_errors": 0,
  "ipaddr": "0.0.0.0",
  "speed": 1000,
  "duplex": true,
  "snr": [
    29,
    28,
    29,
    29
  ],
  "cable_len": 38
},
{
  "ifname": "ath0",
  "hwaddr": "78:8A:20:AC:E4:4C",
  "enabled": true,
  "mtu": 1500,
  "status": {
    "plugged": false,
    "tx_bytes": 394212716,
    "rx_bytes": 361312482,
    "tx_errors": 0,
    "rx_errors": 0,
    "ipaddr": "0.0.0.0",
    "speed": 0,
    "duplex": false
  }
},
{
  "ifname": "br0",
  "hwaddr": "78:8A:20:AC:E4:4C",
  "enabled": true,
  "mtu": 1500,
  "status": {
    "plugged": true,
    "tx_bytes": 312537683,
    "rx_bytes": 249947706,
    "tx_errors": 0,
    "rx_errors": 0,
    "ipaddr": "10.210.48.2",
    "speed": 0,
    "duplex": false
  }
}
```

```
    }  
  }  
],  
"provmode": {},  
"ntpclient": {},  
"unms": {  
  "status": 1,  
  "timestamp": "2018-01-26T08:29:57+0100"  
}  
}
```

From:  
<https://wiki.csgalileo.org/> - **Galileo Labs**

Permanent link:  
<https://wiki.csgalileo.org/tips/airos?rev=1551344611>

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