AirOS

```php
<?php

// airOS-getFile_HTTP() 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_HTTP ($username, $password, $file, $address, $schema)

#$out = airOS_getFile_HTTP ("root", "xxx", "status.cgi", "10.210.48.2",
"https"); // CPE mng
#$out = airOS_getFile_HTTP ("galileo", "xxx", "status.cgi", "10.210.12.247",
"http"); // settore
$out = airOS_getFile_HTTP ("root", "xxx", "status.cgi",
"109.104.240.187:8008", "http"); // CPE
print $out;

function airOS_getFile_HTTP ($username, $password, $file, $address, $schema)

{
        $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 ($ch, CURLOPT_URL, "$schema://$address/api/auth");
        curl_setopt ($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
```

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

                curl_setopt ($ch, CURLOPT_URL,
"$schema://$address/logout.cgi");
                curl_setopt ($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 ($ch, CURLOPT_URL,
"$schema://$address/login.cgi");
                curl_setopt ($ch, CURLOPT_POST, 1);
                curl_setopt ($ch, CURLOPT_POSTFIELDS, Array ('username' =>
$username, 'password' => $password));
                curl_exec ($ch);

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

        curl_close ($ch);

        return $retfile;
}
?>
```

```json
{
  "chain_names": [
    {
      "number": 1,
      "name": "Chain 0"
    },
    {
      "number": 2,
      "name": "Chain 1"
    }
  ],
```

```json
"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": {
    "essid": "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,
```

```json
    "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,
```

```json
          "tx_packets": 292160,
          "tx_pps": 0
        },
        "remote": {
          "hostname": "santuario-SudOvest",
          "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,
            0,
            0
          ],
          "tx_bytes": 139113407571,
          "rx_bytes": 9806798900,
          "ethlist": [
            {
              "ifname": "eth0",
              "enabled": true,
              "plugged": true,
              "duplex": true,
              "speed": 1000,
              "snr": [
                30,
                30,
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          30,
          30
        ],
        "cable_len": 14
      }
    ],
    "ipaddr": [
      "10.210.48.248",
      "169.254.47.157"
    ],
    "gps": {
      "lat": "45.545359",
      "lon": "10.878980",
      "fix": 1,
      "sats": 8,
      "dim": 3,
      "dop": "1.30",
      "alt": "341.6"
    },
    "oob": "false"
  },
  "airmax": {
    "actual_priority": 2,
    "beam": 0,
    "desired_priority": 2,
    "downlink_capacity": 57720,
    "uplink_capacity": 95680,
    "atpc_status": 0,
    "rx": {
      "usage": 1,
      "cinr": 26,
      "evm": [
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        },
        "tx": {
          "usage": 1,
          "cinr": 26,
          "evm": [
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            ]
        }
    }
}
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      ]
    },
    "interfaces": [
      {
        "ifname": "eth0",
        "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,
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```
        "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**

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