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How To Control Outlet And Get Status

Document History

Date	Description	Version
2018/04/17	Support Heartbeat function	8204
2019/02/22	Support HTTPS	8614
2020/07/03	Support enhanced Cookie Login method	A624
2023/02/07	* Added support for IP Whitelisting * New: JSON format. * New: Get Status: "Outlet Name"	3207

API 3207
Applicable for firmware released after 2023/02/07

Get Status:

HTTP URL: "https://<IP>/api/status"

IP:
    The IP Address of Device.

Response Data:

JSON format:
```
{
    "connections": [
      {
          "assign": {ASSIGN}
          "label": {LABEL}
          "host": {HOST}
          "ip": {IP}
          "resp": {RESP_TIME}
          "timeout": {TIMEOUT}
          "lost": {LOST}
      },
      …
    ],
    "status": {
      "outlet": [
        {
          "name": {OUTLET1_NAME},
          "status": {OUTLET1_STATUS},
          "reset_only": {OUTLET1_RESET_ONLY}
        },
        {
          "name": {OUTLET2_NAME},
          "status": {OUTLET2_STATUS},
          "reset_only": {OUTLET2_RESET_ONLY}
        }
      ],
      "uis": {UIS_STATUS}
    }
}
```

ASSIGN:
    string: "NONE", "OUTLET1", "OUTLET2", "BOTH"

LABEL:
    string: Site Label.

HOST:
    string: Website / IP Address.

IP:
    string: IP Address.

RESP_TIME:
    digit: Site response time. (unit: millisecond)

TIMEOUT:
    digit: Count of timeout.

LOST:
    digit: Percent of ping lost.

OUTLET_NAME:
    string: Outlet Name.

OUTLET_STATUS:
    boolean: false means Off, true means On.

OUTLET_RESET_ONLY:
    boolean: false means Off, true means On.

UIS_STATUS:
    boolean: false means Off, true means On.

Control Outlet:

HTTP URL: "https://<IP>/api/control?target=<TAR>&action=<ACT>"

IP:
    The IP Address of Device.

TAR:
    "outlet1", "outlet2", "outlet_all", "uis"

ACT:
    "on", "off", "reset"

Example:
    Command: https://192.168.0.100/api/control?target=outlet2&action=on
    Outcome: Outlet2 On

Response Data:

JSON format:
```
{
    "outlet": [{OUTLET1_STATUS}, {OUTLET2_STATUS}],
    "uis": {UIS_STATUS}
}
```

OUTLET_STATUS / UIS_STATUS:
    boolean: false means Off, true means On

Heartbeat Trigger:

HTTP URL: "https://<IP>/api/heartbeat"

IP:
    The IP Address of Device.

The function starts after the first command is received.

Example:
    http://192.168.0.100/api/heartbeat

Response Data:

JSON format:
```
{
    "heartbeat": "YYYY/MM/DD HH:MM:SS"
}
```

API A624

Applicable for firmware MNT(.NB)(.NBU) from version A624, Aa05, Ac08, 1a28, 1b18, 2111, 2127, 2408.
Released between 2020/03/24 and 2022/05/03

Generate a Cookie-Token for User Login:

HTTP Packet Request

"POST /goform/login HTTP/1.1"CRLF
"Accept: */*"CRLF
"Accept-Encoding: gzip, deflate"CRLF
"Content-Type: application/x-www-form-urlencoded"CRLF
CRLF
"user=" <Web Account> "&password=" <Web Password>

HTTP Packet Response

"Pragma: no-cache"CRLF
"Set-Cookie: WQKJhuEcnAVA3t7WE+ug6A=<token>; HttpOnly; Path=/"CRLF
"Content-Type: text/html"CRLF
"Server: GoAhead-Webs"CRLF
"Location: /index.asp"CRLF
"Date: Thu Jul 1 01:01:01 2020"CRLF
"Cache-Control: no-cache"CRLF
CRLF

NOTE: The generated access token <token> is valid for 24 hours only.

Get Status:

HTTP Packet Request

"GET /xml/outlet_status.xml HTTP/1.1"CRLF
"Accept: */*"CRLF
"Accept-Encoding: gzip, deflate"CRLF
"Cookie: WQKJhuEcnAVA3t7WE+ug6A="<token>CRLF
CRLF

Response Data:

XML format:
    "<?xml version='1.0'?>"
    "<request>"
    "<site_ip>"{SITE_IP}"</site_ip>"
    "<connect_status>"{CONNECT_STATUS}"</connect_status>"
    "<outlet_status>"{OUTLET_STATUS}"</outlet_status>"
    "<site_lost>"{SITE_LOST}"</site_lost>"
    "<uis_fun>"{UIS_RESET}"</uis_fun>"
    "<reset_only>{RESET_ONLY}"</reset_only>"
    "<assign>"{ASSIGN}"</assign>"
    "</request>"

SITE_IP:
    string: Site IP Address.

CONNECT_STATUS:
    digit: Site response time. (unit: millisecond)

OUTLET_STATUS:
    digit: 0 means Off, 1 means On.

SITE_LOST:
    digit: Percent of ping lost.

UIS_RESET:
    digit: 0 means Off, 1 means Auto Reset.

RESET_ONLY:
    digit: 0 means Disable, 1 means Reset Only.

ASSIGN:
    digit: 0 means None, 1 means Outlet1, 2 means Outlet2, 3 means All

Control Outlet (Authentication Parameters):

HTTP URL: "https://<IP>/cgi-bin/control2.cgi?<AUTH>&<ACTION>"

AUTH:
    user=<Web Account>
    passwd=<Web Password>

ACTION:
    target=<0/1/2/3>;
                0 means UIS (Auto Reset function),
                1 means Outlet1,
                2 means Outlet2,
                3 means All_Outlets
    control=<0/1/2/3>;
                0 means Off,
                1 means On,
                2 means Toggle (supported in next firmware release),
                3 means Reset Outlet (applies to Outlets that are On only)

Example:
    Command: https://192.168.0.100/cgi-bin/control2.cgi?
user=admin&passwd=admin&target=2&control=1
    Outcome: Outlet2 On

Response Data:

XML format:
    "<?xml version='1.0'?>"
    "<request>"
    "<outlet_status>"{OUTLET_STATUS}"</outlet_status>"
    "<uis_status>"{UIS_STATUS}"</uis_status>"
    "</request>"

OUTLET_STATUS / UIS_STATUS: 0 means Off, 1 means On

Heartbeat Trigger (Authentication Parameters):

HTTP URL: "https://<IP>/cgi-bin/heartbeat.cgi?<AUTH>"

IP:
    The IP Address of Device.

AUTH:
    user=<Web Account>
    passwd=<Web Password>

The function starts after the first command is received.

Example:
    http://192.168.0.100/cgi-bin/heartbeat.cgi?user=admin&passwd=admin

Response Data:

XML format:
    "<?xml version='1.0'?>"
    "<request>"
    "<heartbeat>"YYYY/MM/DD HH:MM"</heartbeat>"
    "</request>"