Control Outlets and Get Status with WattBox API v2.0

You can use your own program to make a packet request via HTTP protocol using the code provided below. Enter **`text in this format`** exactly as shown (or copy and paste it). Text **`shown like this`** indicates that the exact text varies based on your specific setup or desired command. This API works with both the 300 and 700 series.

Control Outlet Command

Your complete packet request consists of the request as shown:

```
"GET control.cgi?outlet=<#>&command=<#> HTTP/1.1"CRLF
"Host:" <your WattBox's ip>CRLF
"Keep-Alive: 300"CRLF
"Connection: keep-alive"CRLF
"Authorization: Basic" <authorization>CRLF
"User-Agent: APP"CRLFCRLF
```

The variable characters are described below.

Outlet Number:

- When entering an outlet number, 0 selects all outlets, and only supports the reset command.
- Otherwise select the numeral that matches the outlet number desired.
- WB-300-IP-3 therefore supports outlet numbers 0–3.
- WB-700-IPV-12 supports outlet numbers 0–12.

Command Number:

- 0: power off
- 1: power on
- 3: power reset (available only when outlet is already on)
- 4: auto reboot on
- 5: auto reboot off

Example, to reset outlet 1, use the command:

```
control.cgi?outlet=1&command=3
```

To create the authorization code, concatenate the account name, a colon, and the account password, then use base64 encoding to create a string. For example, if the account is *admin* and the password is *1234*, then take the string **`admin:1234`** and encode it with base64. This gets you the string **`YWRtaW46MTIzNA==`**, which is your authorization.

Packet Response to Control Outlet

The response is given in XML format.

WB-300-IP-3:

```
"<?xml version='1.0'?>"
"<request>"
"<outlet_status>"{OUTLET1}","{OUTLET2}","{OUTLET3}"</outlet_status>"
"<auto_reboot>"{AUTO_REBOOT}"</auto_reboot>"
"</request>"
```

WB-700-IPV-12

```
"<?xml version='1.0'?>"
"<request>"
"<outlet_status>"{OUTLET1}","{OUTLET2}","{OUTLET3}","{OUTLET4}","{OUTLET5}",
   "{OUTLET6}","{OUTLET7}","{OUTLET8}","{OUTLET9}","{OUTLET10}","{OUTLET11}",
   "{OUTLET12}"</outlet_status>"
"<auto_reboot>"{AUTO_REBOOT}"</auto_reboot>"
"</request>"
```

Notes:

- OUTLET<#> carries the status of that outlet; 0 is off, 1 means on.
- AUTO_REBOOT: a response of 0 means off, 1 means on.

Get Status Command

To get the current status of the WattBox, use the command:

```
"wattbox_info.xml"
```

Packet Response to Get Status

The response is given in XML format.

WB-300-IP-3:

```
"<?xml version='1.0'?>"
"<request>"
"<host_name>"{HOST_NAME}"</host_name>"
"<hardware_version>WB-300-IP-3</hardware_version>"
"<serial_number>"{SERIAL_NUMBER}"</serial_number>"
"<site_ip>"{SITE_IP1}","{SITE_IP2}","{SITE_IP3}","{SITE_IP4}","{SITE_IP5}",
   "{SITE_IP6}","{SITE_IP7}""</site_ip>"
"<connect_status>"{C1_S}","{C2_S}","{C3_S}","{C4_S}","{C5_S}","{C6_S}","{C7_S}"
   </connect_status>"
"<site_lost>"{S1_L}","{S2_L}","{S3_L}","{S4_L}","{S5_L}","{S6_L}","{S7_L}"
   </site_lost>"
"<auto_reboot>"{A_R}"</auto_reboot>"
"<outlet_name>"{OUTLET_NAME1}","{OUTLET_NAME2}","{OUTLET_NAME3}"</outlet_name>"
"<outlet_status>"{O1_S}","{O2_S}","{O3_S}"</outlet_status>"
"<outlet_mode>"{O1_M}","{O2_M}","{O3_M}"</outlet_mode>"
"<led_status>"{L_I}","{L_S}","{L_A}"</led_status>"
"<safe_voltage_status>"{SAFE_VOLTAGE_STATUS}"</safe_voltage_status>"
"<voltage_value>"{VOLTAGE_VALUE}"</voltage_value>"
"<current_value>"{CURRENT_VALUE}"</current_value>"
"<power_value>"{POWER_VALUE}"</power_value>"
"</request>"
```

Model: WB-700-IPV-12

```
"<?xml version='1.0'?>"
"<request>"
"<host_name>"{HOST_NAME}"</host_name>"
"<hardware_version>WB-700-IPV-12</hardware_version>"
"<serial_number>"{SERIAL_NUMBER}"</serial_number>"
```

```
"<site_ip>"{SITE_IP1}","{SITE_IP2}","{SITE_IP3}","{SITE_IP4}","{SITE_IP5}",
   "{SITE_IP6}","{SITE_IP7}","{SITE_IP8}","{SITE_IP9}","{SITE_IP10}","{SITE_IP11}",
   "{SITE_IP12}","{SITE_IP13}","{SITE_IP14}","{SITE_IP15}","{SITE_IP16}"</site_ip>"
"<connect_status>"{C1_S}","{C2_S}","{C3_S}","{C4_S}","{C5_S}","{C6_S}","{C7_S}
   ","{C8_S}","{C9_S}","{C10_S}","{C11_S}","{C12_S}","{C13_S}","{C14_S}","{C15_
   S}","{C16_S}"</connect_status>"
"<site_lost>"{S1_L}","{S2_L}","{S3_L}","{S4_L}","{S5_L}","{S6_L}","{S7_L}","{S8_L}",
   "{S9_L}","{S10_L}","{S11_L}","{S12_L}","{S13_L}","{S14_L}","{S15_L}","{S16_L}"
   </site_lost>"
"<auto_reboot>"{A_R}"</auto_reboot>"
"<outlet_name>"{OUTLET_NAME1}","{OUTLET_NAME2}","{OUTLET_NAME3}","{OUTLET_NAME4}",
   "{OUTLET_NAME5}","{OUTLET_NAME6}","{OUTLET_NAME7}","{OUTLET_NAME8}",
   "{OUTLET_NAME9}","{OUTLET_NAME10}","{OUTLET_NAME11}","{OUTLET_NAME12}"
   </outlet_name>"
"<outlet_status>"{O1_S}","{O2_S}","{O3_S}","{O4_S}","{O5_S}","{O6_S}","{O7_S}",
   "{O8_S}","{O9_S}","{O10_S}","{O11_S}","{O12_S}"</outlet_status>"
"<outlet_mode>"{O1_M}","{O2_M}","{O3_M}","{O4_M}","{O5_M}","{O6_M}","{O7_M}",
   "{O8_M}","{O9_M}","{O10_M}","{O11_M}","{O12_M}"</outlet_mode>"
"<led_status>"{L_I}","{L_S}","{L_A}"</led_status>"
"<safe_voltage_status>"{SAFE_VOLTAGE_STATUS}"</safe_voltage_status>"
"<voltage_value>"{VOLTAGE_VALUE}"</voltage_value>"
"<current_value>"{CURRENT_VALUE}"</current_value>"
"<power_value>"{POWER_VALUE}"</power_value>""</request>"
```

Notes (presented in order of appearance):

- HOST_NAME is a string with the name of your WattBox (maximum length is 32 characters).
- SERIAL_NUMBER is the WattBox's serial, up to 10 characters.
- SITE_IP<#>: is a string with the IP of the corresponding site used for connectivity testing.
- C<#>_S is the response timing, measured in milliseconds, for your connectivity sites.
- S<#>_L gives the percentage of the ping that was lost for each of up to five sites.
- A_R is a digit; 0 means auto-reboot is off, 1 means it's on.
- OUTLET_NAME<#> is a string with that outlet's name.
- O<#>_S gives the status for the outlet with that number; 0 means it's off, 1 means it's on.
- O<#>_M (for the WB-300-IP-3) gives a digit: 1 means the outlet is in normal mode,.2 means reset only.
- O<#>_M (WB-700-IPV-12) is a 0 if the master switch is disabled, 1 if it's enabled, and 2 if it's disabled / reset only.
- L_I / L_S / L_A is a 0 for off, a 1 if green is on, a 2 if red is on, 3 for green blinking, and 4 for red blinking.
- SAFE_VOLTAGE_STATUS gives a 0 if SVC is off, a 1 if it is on and voltage is safe, and a 2 if it's on and voltage is unsafe.
- VOLTAGE_VALUE gives the voltage as measured in tenths of an volt (example: 1115 means 111.5V)
- CURRENT_VALUE gives the current as measured in tenths of an amp (example: 105 means 10.5A).
- POWER_VALUE gives the power measured in watts (example: 600 means 600W).