Simple Command Manual

WYSACVLXY-XX

Mar-2016
**Command**

**WSTC**  Set common setting value

**Format:**

```
WSTC<<param0>><<param1>>\r\n```

**Parameters**

- `<<param0>>`: No.
  - “01”-“05”
    - 01 (UART baud rate)
  - …

- `<<param1>>`: Value
  - "00" - "11"
    - 00 : 115200 (default)
    - 01 : 9600
    - 02 : 19200
    - 03 : 38400
    - 04 : 57600
    - 05 : 115200
    - 06 : 230400
    - 07 : 250000
    - 08 : 500000
    - 09 : 1000000
    - 10 : 1500000
    - 11 : 2000000

* Baud rate setting will be updated after reboot.

**For instance**

```
WSTC0100\r
```

Set UART baud rate to 115200bps.

**Return value**

- Successful: ACK\r\n- Failed: NAK##\r

*## is error code, show error code table.

**WISC**  Scan for wireless networks

**Format:**

```
WISC\r
```

**For instance**

```
WISC\r
```

Scan for wireless networks (access point)
Return value

Successful: SCR, ACK (ACK is termination)
Failed: NAK##<CR><LF>

WSTI Set infrastructure configuration.

Format:

WSTI<<param0>>><<param1>>><<param2>>><CR><LF>

Parameters

<<param0>>: List
“1”-“4”

You can record setting 4 sets.

<<param1>> and <<param2>>: Profile Table

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Item Name</th>
<th>&lt;&lt;param2&gt;&gt;: Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Ssid</td>
<td>Max 32 characters</td>
</tr>
</tbody>
</table>
| 02      | security type              | ‘0’ : No security<br>
|         |                            | ‘1’ : WEP with open key<br>
|         |                            | ‘2’ : WEP with shared key<br>
|         |                            | ‘3’ : WPA/WPA2 with PSK mixed<br>
|         |                            | ‘4’ : WPA2 with PSK                                                             |
| 03      | security key               | Max 64 characters<br>
|         |                            | WEP : ASCII (5 or 13byte) / HEX (10 or 26byte)<br>
|         |                            | WPA/WPA2 : ASCII                                                                |
| 04      | addr_type                  | ‘0’ : Static<br>
|         |                            | ‘1’ : DHCP                                                                     |
| 05      | IP address (static addr type) | “XXX.XXX.XXX.XXX”                                                                 |
| 06      | subnet mask (static addr type) | “XXX.XXX.XXX.XXX”                                                                  |
| 07      | default gateway (static addr type) | “XXX.XXX.XXX.XXX”                                                                  |
| 08      | primary DNS server (static addrtype) | “XXX.XXX.XXX.XXX”                                                                  |
| 09      | secondary DNS server (static addrtype) | “XXX.XXX.XXX.XXX”                                                                  |

For instance

WSTI101taiyo<CR><LF>

Set SSID to setting slot 1 to “taiyo”.

Return value

Successful: ACK<CR><LF>
Failed: NAK##<CR><LF>
WICO  Connect to a network
Format:
   WICO<<param0>>><CR><LF>
Parameters
   <<param0>>: List Index
       "1"~"4"
   Select the settings that you want to use

For instance
   WICO1<CR><LF>
   Connect to access point using by using setting list index “1”.

Return value
   Successful: CON
   Failed: NAK##<CR><LF>

WHTG  Start an HTTP session and read data (HTTP get)
Format:
   WHTG<<param0>>><param1>>><CR><LF>
Parameters
   <<param0>>: Handle number
       “01”~“99”
   HTTP GET request id. pick one number between 01 and 99.
   <<param1>>: URL
       Max length 1024

For instance
   WHTG01http://www.google.com/<CR><LF>

Return value
   Successful: RSC, RCT
   Failed: NAK##<CR><LF>

WHPS  HTTP Post
Format:
   WHPS<<param0>>><param1>>><CR><LF>
Parameters
   <<param0>>: URL (+ *)
   <<param1>>: content

For instance
   WHPShttp://www.test.org/index.html*abc=1234&def=5678<CR><LF>
**Return value**

Successful: POK, RCT  
Failed: NAK##<CR><LF>

**Error code table**

<table>
<thead>
<tr>
<th>#</th>
<th>Error Name</th>
<th>Program Logic</th>
<th>Action taken by host</th>
</tr>
</thead>
<tbody>
<tr>
<td>FF</td>
<td>System Error</td>
<td>There is the possibility that the hardware is out of order.</td>
<td>Please inquire Taiyo Yuden.</td>
</tr>
<tr>
<td>00</td>
<td>Command Not Recognized</td>
<td>It confirms whether or not the command is correct.</td>
<td>Send the command once again.</td>
</tr>
<tr>
<td>01</td>
<td>Bad Parameter</td>
<td>It confirms whether or not the parameter is correct.</td>
<td>Send the command once again.</td>
</tr>
<tr>
<td>04</td>
<td>Connection Error</td>
<td>General connection error</td>
<td>Check parameter and retry. Reconnect or reboot.</td>
</tr>
<tr>
<td>05</td>
<td>Profile Error</td>
<td>UAP / ICO command is called with invalid profile setting.</td>
<td>Set micro-AP / Infrastructure profile</td>
</tr>
<tr>
<td>06</td>
<td>WPS running Error</td>
<td>Input commands while WPS is running.</td>
<td>Wait or stop WPS.</td>
</tr>
<tr>
<td>10</td>
<td>Network Not Found</td>
<td>Access Point is not exist.</td>
<td>Check Access Point setting.</td>
</tr>
<tr>
<td>11</td>
<td>Authentication Failed</td>
<td>Authentication error occurs in association to Access Point.</td>
<td>Check parameter and retry.</td>
</tr>
<tr>
<td>12</td>
<td>DHCP Failed</td>
<td>IP address is not assigned after association to Access Point.</td>
<td>Check Access Point setting.</td>
</tr>
<tr>
<td>14</td>
<td>Other Infrastructure Connection error</td>
<td>Other error occurs in connection to Access Point.</td>
<td>Check Access Point setting.</td>
</tr>
<tr>
<td>15</td>
<td>Infrastructure is connected</td>
<td>ICO / WPS command is called while infrastructure is connected.</td>
<td>Disconnect infrastructure with IDC command.</td>
</tr>
<tr>
<td>16</td>
<td>Server mode update Failed</td>
<td>It failed in server mode update of UFW command.</td>
<td>Check if firmware file is valid.</td>
</tr>
<tr>
<td>20</td>
<td>TCP socket full</td>
<td>Create TCP socket over the limit</td>
<td>Close socket.</td>
</tr>
<tr>
<td>21</td>
<td>UDP socket full</td>
<td>Create UDP socket over the limit</td>
<td>Close socket.</td>
</tr>
<tr>
<td>22</td>
<td>Socket full</td>
<td>Create socket over the limit</td>
<td>Close socket.</td>
</tr>
<tr>
<td>23</td>
<td>Socket TX queue full</td>
<td>Socket TX queue is full</td>
<td>Wait until the queued data is sent.</td>
</tr>
</tbody>
</table>