

## iGS01 Telnet Command

### Description

To help user to configure iGS01 in some case that he can't get into webUI, the telnet command is developed. This document gives these commands and examples for firmware version after v1.2. PLEASE NOTE, ALL THE CHANGES MADE WILL ONLY BE EFFECTIVE AFTER REBOOT.



### Connect

To use telnet command, the device must be connected first. You have to discover the IP address of the iGS01 first. Once you know the IP address, just use any telnet tool, you can telnet into the device. The login account and password is the same with the one you get into the webUI, it is "admin" in default. Below figure is the example

```

Telnet 192.168.10.1
BLE-WiFi console
login:admin
password:admin
> _
    
```

### Command set

COMMAND	PROPERTY	VALUE	DEFAULT
WIFI	SCAN		
	MODE	0: AP mode 1: STA mode	0
	APSSID	The AP SSID	BLE-WIFI_XX_XX
	APSECT	The AP security type: OPEN WPA_AES WPA_TKIP WPA2_AES WPA2_TKIP	wpa2_aes

	APSECK	The AP security key	12345678
	APCHNL	The AP channel	6
	STASSID	STA SSID	
	STASECT	STA security type: OPEN WEP_OPEN WEP_SHARED WPA_AES WPA_TKIP WPA2_AES WPA2_TKIP WPA2_MIXED	
	STASECK	STA security key	
	STAWEPK	STA wep key	
DHCP	ENABLE	0: Disable 1: Enable	1
	IPADDR	Static IP setting	192.168.0.100
	NETMASK	Static netmask setting	255.255.255.0
	GATEWAY	Static gateway setting	192.168.0.255
	DNS	Static DNS setting	8.8.8.8
DHCPD	IPADDR	DHCP server IP	192.168.10.1
	NETMASK	DHCP server netmask	255.255.255.0
TCPSRV	PORT	M2M TCP server listen port	8080
TCPCLI	HOST	M2M TCP client target host	
	PORT	M2M TCP client target port	8080
HTTP	HOST	HTTP server host	
	PORT	HTTP server port	80
	URLPATH	URL path	
	USERNAME	Username for basic auth	
	PASSWORD	Password for basic auth	
	EXTRAHDR	Extra header field name	
	EXTRAVAL	Extra header field value	
KEEPALIVE	Enable/disable http keepalive		0 (v1.2.4+)
MQTT	HOST	MQTT server host	
	PORT	MQTT server port	1883
	PUBTOPIC	MQTT Publish Topic	
	CLIENTID	MQTT client ID setting	

	USERNAME	MQTT username	
	PASSWORD	MQTT password	
	VERSION	0: mqtt-3.1 1: mqtt-3.1.1	
	MQTTS	0: Disable, 1: enable mqttts	0 (v1.2.2+)
	ROOTCA	0: No CA, 1: AWS-IOT	0 (v1.2.2+)
	USECERT	0: Disable, 1: Use cert/key	0 (v1.2.2+)
SYS	INFO	Show system firmware information	
	DUMP	Dump all settings	
	ECHO		
	WORKMODE	0: M2M server 1: M2M client 2: HTTP 3: MQTT	0
	PASSWORD	System login password	admin
	THROTTLE	Enable throttle to filter out duplicated MAC in cache. (apply to http only)	0
	REQINTVL	The send request interval, if 0 send request immediately. (apply to http only, need THROTTLE enable to work)	0
	AUTORESET	reset timeout:HH MM (0: disable) valid range is 0 ~ 49 days	0
	BROADCAST	<interval(ms)> <timeout(ms)> <payload>	(v1.2.1+)
	RSSITHR	0 ~ -127	-100 (v1.2.2+)
	GPRPWL	<mask> <pattern>	(v1.2.2+)
	NSLOOKUP	DNS lookup for a given hostname	(v1.2.2+)
	PING	Ping a given IP	(v1.2.2+)
	NTP	ENABLE	Enable/disable NTP
SERVER		NTP server	pool.ntp.org (v1.2.4+)
SYNCINTVL		Sync interval in seconds	86400 (1day) (v1.2.4+)
REBOOT		0: reboot 1: reboot to default setting 2: reboot to OTA mode 3: reboot to WPS mode	
EXIT			

## Examples

Join Access Point	
	WIFI MODE 1
	WIFI STASSID YOUR_AP
	WIFI STASECT wpa2_mixed
	WIFI STASECK 12345678
Set as M2M server	
	SYS WORKMODE 0
	TCPSRV 8080
Set as M2M client	
	SYS WORKMODE 1
	TCPCLI HOST 192.168.0.123
	TCPCLI PORT 8080
Set as HTTP client	
	SYS WORKMODE 2
	HTTP HOST test
	HTTP PORT 80
	HTTP URLPATH /api/test/endpoint
Set as MQTT client	
	SYS WORKMODE 3
	MQTT HOST <a href="http://iot.eclipse.org">iot.eclipse.org</a>
	MQTT PORT 1883
	MQTT PUBTOPIC my/test/pub/topic

## Revision History

DATE	REVISION	CHANGES
Dec 24, 2015	1	Initial release
Mar 3, 2016	2	Re-design telnet command set for firmware version after V1.2.0
Apr 22, 2016	3	Update new commands for v1.2.1+
Jul 4, 2016	4	Update new commands for v1.2.4+