

## iGS02E Telnet Command

### Description

To help users to configure iGS02E in some cases that he can't get into webUI, the telnet command is developed. For mass configuration, telnet command is also recommended.

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 iGS02E 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
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
TCPLI	HOST	M2M TCP client target host	

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	PORT	M2M TCP client target port	8080
HTTP	URL	Sending http request: <a href="http://www.example.com/test">http://www.example.com/test</a>  Sending https request: <a href="https://www.example.com/test2">https://www.example.com/test2</a>	
	EXTRAHDR	Extra header field name	
	EXTRAVAL	Extra header field value	
	KEEPALIVE	Enable/disable http keepalive	1
	FORMAT	0: plain text 1: json format	0
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	1
	FORMAT	0: plain text 1: json format	
	MQTTS	0: Disable 1: enable mqtt	0
	ROOTCA	0: No CA 1: AWS-IOT 2: Azure-IOT	0
USECERT	0: Disable 1: Use cert/key	0	
SYS	INFO	Show system firmware information	
	DUMP	Dump all settings	
	ECHO		
	WORKMODE	0: M2M server 1: M2M client 2: HTTP 3: MQTT	0
	USERNAME	System login username	admin
	PASSWORD	System login password	admin
	THROTTLE	Enable throttle to filter out duplicated MAC in cache.	0

		(apply to http only)	
	REQINTVL	The send request interval, if 0 send request immediately.	0
	FULLDROP	Drop input data if cache full before reaching request interval	0
	AVGRSSI	Calculate average RSSI of the same tag in cache	0
	AUTORESET	reset timeout:HH MM (0: disable) valid range is 0 ~ 49 days	0
	NSLOOKUP	DNS lookup for a given hostname	
	PING	Ping a given IP	
	HEARTBEAT	Send heartbeat report periodically	0
	MSTIME	Enable timestamp in millisecond (when NTP enabled)	0
	FORMATSEL	0: plain-text 1: json format	0
	ACTIVEPING	Enable regularly ping GW to detect networking issue To ping GW per minute: > SYS ACTIVEPING 1	0
	OTA	Support fetching firmware via http for OTA: > SYS OTA FS <url_for_fs_image> <md5sum> > SYS OTA APP <url_for_app_image> <md5sum> > SYS OTA START	
BLE	ACTSCAN	0: Disable 1: Enable Will report SRRP if enabled.	0
	BROADCAST	BLE BROADCAST <duration(s)> <ADV interval(ms)> <payload> E.g. BLE BROADCAST 0 1000 4C000215E2C56DB5DFFB48D2B060D0F5A71096E00000 1C84C5 => broadcast iBeacon UUID: E2C56DB5DFFB48D2B060D0F5A71096E0/ Major: 0000/ Minor: 1C84/ Measured Power: C5	0 0
	RSSITHR	0 ~ -127	-100
	PAYLOADWL	Set ble payload mask/pattern (3 sets) <index> <mask> <pattern>	
	MACWL	Set ble mac whitelist (10 sets) <index> <ble mac> E.g. > BLE MACWL 1 C5A369551012	

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		To clear the setting: > BLE MACWL 1 ""	
	FILSEL	0: Disable 1: Enter/Leave filter 2: Status change filter	0
	RSSIENR		-60
	RSSILVE		-80
	DEBOUNCE		30000
	EXPIRETIMEOUT		60
NTP	ENABLE	Enable/disable NTP	0
	SERVER	NTP server	pool.ntp.org
	SYNCINTVL	Sync interval in seconds	86400 (1day)
REBOOT		0: reboot 1: reboot to default setting 2: reboot to OTA mode 3: reboot to WPS mode	
EXIT			

## Examples

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 URL https://ingics.ddns.net/upload
Set as MQTT client	
	SYS WORKMODE 3
	MQTT HOST iot.eclipse.org
	MQTT PORT 1883
	MQTT PUBTOPIC my/test/pub/topic

## Revision History

DATE	REVISION	CHANGES
Apr 17, 2018	1	Initial release