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Single device configuration

1. Usage

The basic command format for single device configuration is as follows.

'-d' is a device selection option and the parameter is the MAC address of the device to be set.

```
python wizconfig.py -d 00:08:DC:XX:XX:XX [Options ...]
```

You can see the available options with the -h/-help option.

- Refer to previous tutorial: [How to use CLI Config](#)
-

2. Set device

These are some examples about setting single device.

Example #1: baud rate

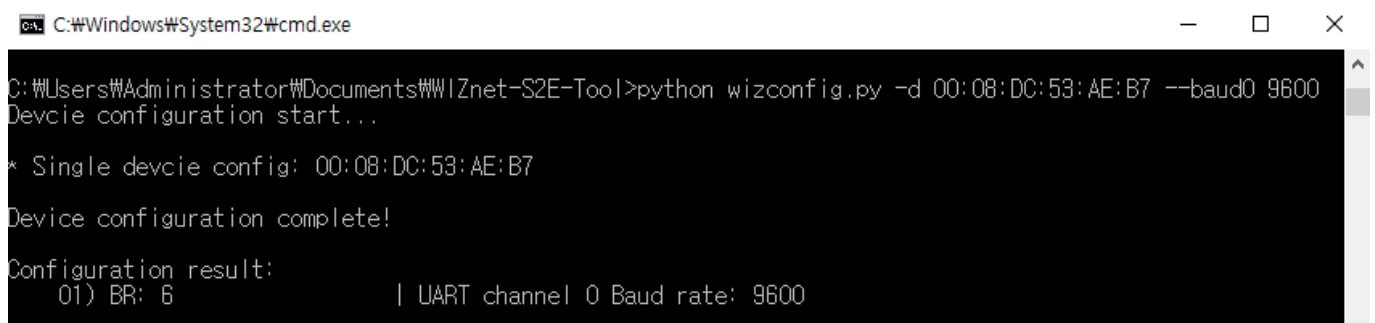
Use the -baud0 option to set the serial baud rate.

Since WIZ750SR is a 1 port device, use '-baud0' option of Channel #0 Options.

```
// -baud0 BAUD0          baud rate  
(300|600|1200|1800|2400|4800|9600|14400|19200|28800|38400|57600|115200|230400)//
```

To set the baud rate to 9600, set the following:

```
python wizconfig.py -d 00:08:DC:53:AE:B7 --baud0 9600
```



```
C:\Windows\System32\cmd.exe  
C:\Users\Administrator\Documents\WIZnet-S2E-Tool>python wizconfig.py -d 00:08:DC:53:AE:B7 --baud0 9600  
Device configuration start...  
* Single device config: 00:08:DC:53:AE:B7  
Device configuration complete!  
Configuration result:  
01) BR: 6          | UART channel 0 Baud rate: 9600
```

When the setting is completed, you can check the configuration result with the message.

Example #2: static IP

To set static IP, you need the following information may be:

- IP address
- Subnet mask
- gateway
- DNS (optional)

And the options for these settings are:

--ip IP	Local IP address
--subnet SUBNET	Subnet mask
--gw GW	Gateway address
--dns DNS	DNS server address

You can set like this.

```
python wizconfig.py -d 00:08:DC:53:AE:B7 --ip 192.168.50.100 --subnet 255.255.255.0 --gw 192.168.50.1 --dns 8.8.8.8
```



```
C:\Windows\System32\cmd.exe
C:\Users\Administrator\Documents\WIZnet-S2E-Tool>python wizconfig.py -d 00:08:DC:53:AE:B7 --ip 192.168.50.100 --subnet 255.255.255.0 --gw 192.168.50.1 --dns 8.8.8.8
Device configuration start...
* Single devcie config: 00:08:DC:53:AE:B7
Device configuration complete!
Configuration result:
01) LI: 192.168.50.100 | Local IP address: 192.168.50.100
02) SM: 255.255.255.0 | Subnet mask: 255.255.255.0
03) GW: 192.168.50.1 | Gateway address: 192.168.50.1
04) DS: 8.8.8.8 | DNS Server address: 8.8.8.8
```

Example #3: Client mode & remote IP/Port

You can change the operation mode to client mode and test by changing the remote IP and port according to your host PC environment.

A description of the operating mode of WIZ750SR can be found here:

[WIZ750SR operation mode.](#)

When operating in the Client mode, you could set up the remote IP and port information as well, because it requires the server information to be connected.

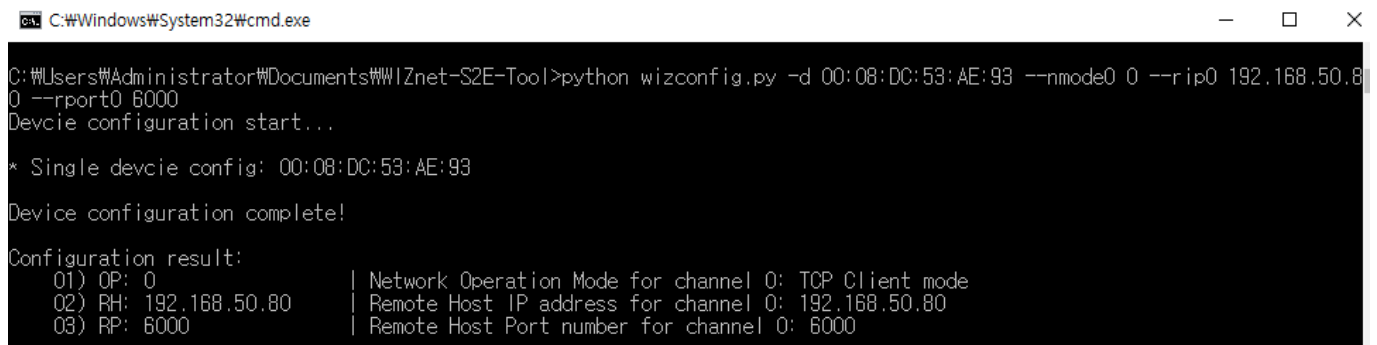
The required option setting information is as follows.

--nmode0 {0,1,2,3}	Network operation mode (0: tcpclient, 1: tcpserver, 2: mixed, 3: udp)
--rip0 IP	Remote host IP address / Domain
--rport0 PORT	Remote host port number

And you can use the above option to set it as follows.

```
python wizconfig.py -d 00:08:DC:53:AE:93 --nmode0 0 --rip0 192.168.50.80 --rport0 6000
```

Remote IP & port should be set according to the environment.



```
C:\Windows\System32\cmd.exe
C:\Users\Administrator\Documents\WIZnet-S2E-Tool>python wizconfig.py -d 00:08:DC:53:AE:93 --nmode0 0 --rip0 192.168.50.80 --rport0 6000
Device configuration start...
* Single devcie config: 00:08:DC:53:AE:93
Device configuration complete!
Configuration result:
 01) OP: 0           | Network Operation Mode for channel 0: TCP Client mode
 02) RH: 192.168.50.80 | Remote Host IP address for channel 0: 192.168.50.80
 03) RP: 6000        | Remote Host Port number for channel 0: 6000
```

3. Firmware update

Step 1: Download Firmware

You can get firmware file from below links.

- [Official release version](#)
- [Development version](#)

You must use **App Boot firmware** file when doing this.

Step 2: Set IP address

When do firmware upload, need TCP connection with the device to send Firmware file. So first, use **-m/-multiset** option for set IP address to the **same network-band as host**.

If your host IP address is '192.168.50.80', you can set like this.

```
python wizconfig.py -m 192.168.50.100
```

The parameter can be set to the random IP that not used.



```
C:\Windows\System32\cmd.exe
C:\Users\Administrator\Documents\WIZnet-S2E-Tool>python wizconfig.py -m 192.168.50.100
Device configuration start...
[All] Set IP for devices 00:08:DC:53:AE:B7 -> 192.168.50.100
Device configuration complete!
```

--

Step 3: Firmware update

If the firmware file is in the project directory, just enter the file name.
Otherwise, enter the full path.

```
python wizconfig.py -d 00:08:DC:53:AE:B7 -u W7500x_S2E_App.bin
```

```
C:\Windows\System32\cmd.exe
C:\Users\Administrator\Documents\WIZnet-S2E-Tool>python wizconfig.py -d 00:08:DC:53:AE:B7 -u W7500x_S2E_App.bin
Device configuration start...

Device 00:08:DC:53:AE:B7 Firmware upload
Firmware file size: 41980

Dest IP: 192.168.50.100, Dest Port num: 50002

Ping 192.168.50.100 32바이트 데이터 사용:
192.168.50.100의 응답: 바이트=32 시간=8ms TTL=128
192.168.50.100의 응답: 바이트=32 시간=33ms TTL=128

192.168.50.100에 대한 Ping 통계:
패킷: 보냄 = 2, 받음 = 2, 손실 = 0 (0% 손실),
량복 시간(밀리초):
최소 = 8ms, 최대 = 33ms, 평균 = 20ms
Device[00:08:DC:53:AE:B7] network OK
['192.168.50.100'] is OPEN
['192.168.50.100'] is CONNECTED
[192.168.50.100] 1024 bytes sent from at 0
[192.168.50.100] 1024 bytes sent from at 1024
[192.168.50.100] 1024 bytes sent from at 2048
[192.168.50.100] 1024 bytes sent from at 3072
[192.168.50.100] 1024 bytes sent from at 4096
[192.168.50.100] 1024 bytes sent from at 5120
[192.168.50.100] 1024 bytes sent from at 6144
[192.168.50.100] 1024 bytes sent from at 7168
[192.168.50.100] 1024 bytes sent from at 8192
[192.168.50.100] 1024 bytes sent from at 9216
[192.168.50.100] 1024 bytes sent from at 10240
[192.168.50.100] 1024 bytes sent from at 11264
[192.168.50.100] 1024 bytes sent from at 12288
[192.168.50.100] 1024 bytes sent from at 13312
```

(skip)

```
C:\Windows\System32\cmd.exe
[192.168.50.100] 1024 bytes sent from at 27648
[192.168.50.100] 1024 bytes sent from at 28672
[192.168.50.100] 1024 bytes sent from at 29696
[192.168.50.100] 1024 bytes sent from at 30720
[192.168.50.100] 1024 bytes sent from at 31744
[192.168.50.100] 1024 bytes sent from at 32768
[192.168.50.100] 1024 bytes sent from at 33792
[192.168.50.100] 1024 bytes sent from at 34816
[192.168.50.100] 1024 bytes sent from at 35840
[192.168.50.100] 1024 bytes sent from at 36864
[192.168.50.100] 1024 bytes sent from at 37888
[192.168.50.100] 1024 bytes sent from at 38912
[192.168.50.100] 1024 bytes sent from at 39936
[192.168.50.100] Last 1020 byte sent from at 40960
Device [00:08:DC:53:AE:B7] firmware upload success!
```



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