



Version: 1.2

Date: 2018-07-18

D03 ESL Base Station ConfigTool Manual

This document is for use by system implementers.



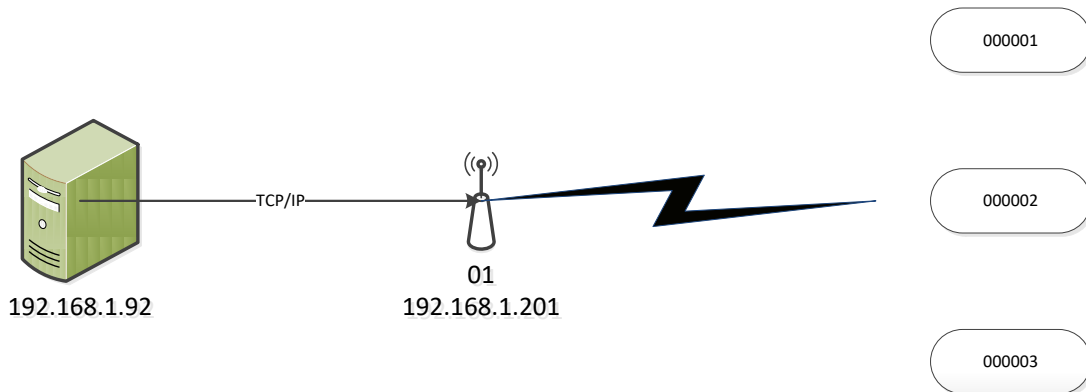
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1 Description

1.1 Architecture

Electronic Tag wireless communication base station (hereinafter referred to as a base station) located between the server and the electronic tag, responsible for transmitting the data from the software to the electronic tag by radio, and returns to the electronic tag radio signal to the software. Communication with the server using TCP / IP protocol, support Ethernet or WLAN in two ways.



This document mainly describes how to configure the network connection parameters of the base station.

The base station will transmits the online data to the target server immediately with the network configuration parameters after power. Till the upper layer connection data, connection is established and maintained.

1.2 Attributes

As with most network devices, the base station needs to configure the following network connection parameters:

Parameter	Value	Remarks	Default value
Local IP	IPv4	e.g.: 192.168.1.201	192.168.1.200
Port	Socket port	Generally 1234	1234
Getaway	IPv4	e.g.: 192.168.1.1	192.168.1.1
Server IP	IPv4	e.g.: 192.168.1.92	192.168.92



In addition, the base station due to their own characteristics, there are still the following unique parameters:

Parameter	Value	Remarks	Default value
ID	01	01~99, The same scene ID is only	01
Time	Seconds	e.g.: 2	40

Note: The ID is 01-99, the same scene ID is unique; Time is the firmware time. For the specific settings, please refer to the project implementation document or contact the after-sales support personnel.

Reset button located on the base station side of the interface circuit of the left aperture Ethernet interfaces, same as most devices, it need to press the reset button over several seconds, until the status light flashes. When the base station is reset, the relevant parameters are reset to default values.



2 Configuration Interface

2.1 Operating Procedures

- a. Connect the station to computer by LAN with factory default setting.
- b. Change the station's parameter
- c. Connect the station by new parameter, support base station to computer directly or base station to computer through the router/HUB.

Step:

Base Station--->LAN--->Computer(Set LAN IPV4=192.168.1.92) ---> change the station with new network parameters(Set the new Gateway, IPV4, time) ---> connect the station by the new network setting

2.2 Prepare

Before change the station's network parameter, please check with your network administrator to get the office/company gateway: 192.168.0.1 (example), which IPV4 is available (example: 192.168.0.101) and the subnet mask.

2.3 ConfigTool

1. Run the ConfigTool (the program name is ETAG MESL Demo.exe).

After the base station online, select the base station to be configured in the function box.

Here, take the 04 base station as an example. It is assumed that the following configuration is required:

Configuration Options	Original Value	New Value
Base Station ID	04	02
Local IP	192.168.1.204	192.168.202
Server IP (IPV4)	192.168.1.92	192.168.1.90
Subnet Mask	255.255.255.0	255.255.255.0
Gateway	192.168.1.1	192.168.0.1

After setting the target parameters, click to "Apply", then the base station, 04 base station will offline, and then 02 base station will online. Indicates the base station configuration is successful.



Config Tool

Station / 基站

Station ID 基站ID	0002-02	Read / 读取
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Properties / 属性

Station ID 基站ID	02	
Shop Code 门店编号	0002	Depends on hardware 取决于硬件
Local IP Address 本地服务器地址	192.168.2.202	
Server IP Address 目标服务器地址	192.168.2.92	
Subnet Mask 子网掩码	255.255.255.0	
Gateway 网关	192.168.2.1	
MAC Address MAC地址	20:18:06:28:10:4A	
TCP Port 端口	1234	Apply / 应用

Output / 输出

```
[18-07-18 17:01:35:743]Station ID:02
[18-07-18 17:01:35:746]Shop code:0002
[18-07-18 17:01:35:748]Local IP:192.168.2.202
[18-07-18 17:01:35:749]Server IP:192.168.2.92
[18-07-18 17:01:35:751]Gateway:192.168.2.1
[18-07-18 17:01:35:753]Subnet mask:255.255.255.0
[18-07-18 17:01:35:755]Mac:20:18:06:28:10:4A
[18-07-18 17:01:35:757]Port:1234
[18-07-18 17:01:35:760]Protocaol:Standard
[18-07-18 17:01:35:762]Speed:09s
[18-07-18 17:01:35:768]RF power:-15dBm
[18-07-18 17:01:35:772]Frequency:433.5MHz
[18-07-18 17:01:35:774]Version:040001:180421
[18-07-18 17:01:35:776]Done.
```

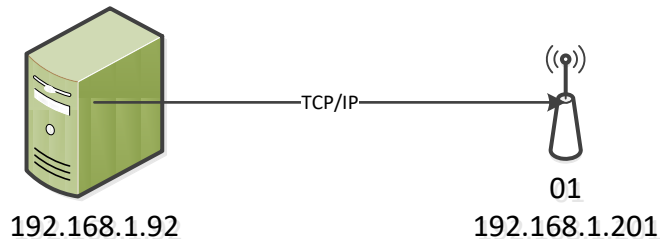
Note/注意: Only for deploy or technical support use/仅供实施或技术支持人员使用 **Clear/清除**



3 Cable Configuration

3.1 Direct Connection

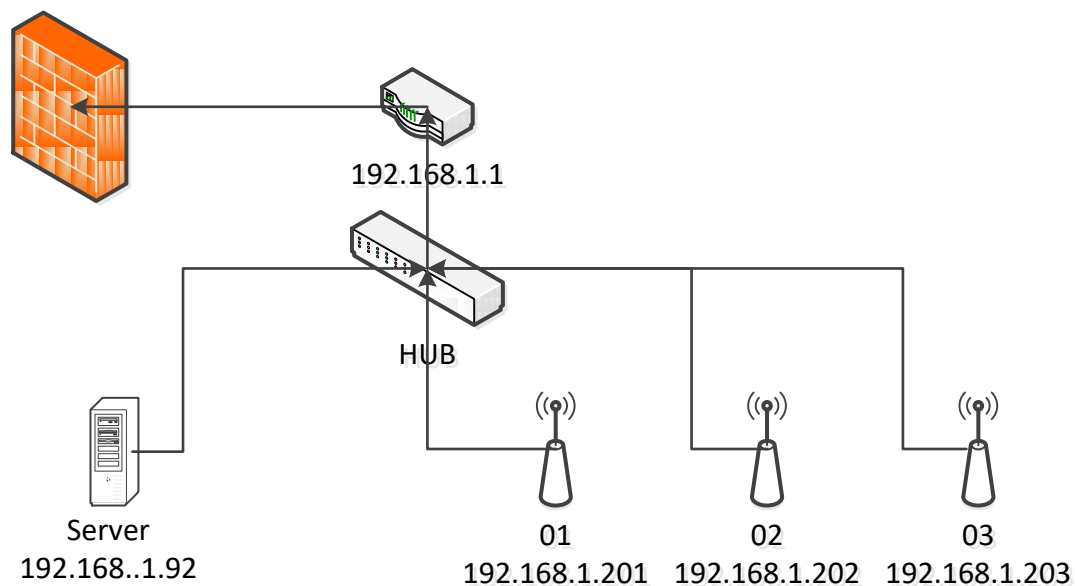
This case applies to a single network cable directly connected to the server and base station.



This environment, no special requirements, only needs the base station and server in the same segment of the LAN.

3.2 LAN: The same network segment

This situation applies to the server and base station in the same segment of the LAN. The network topology is as follows:



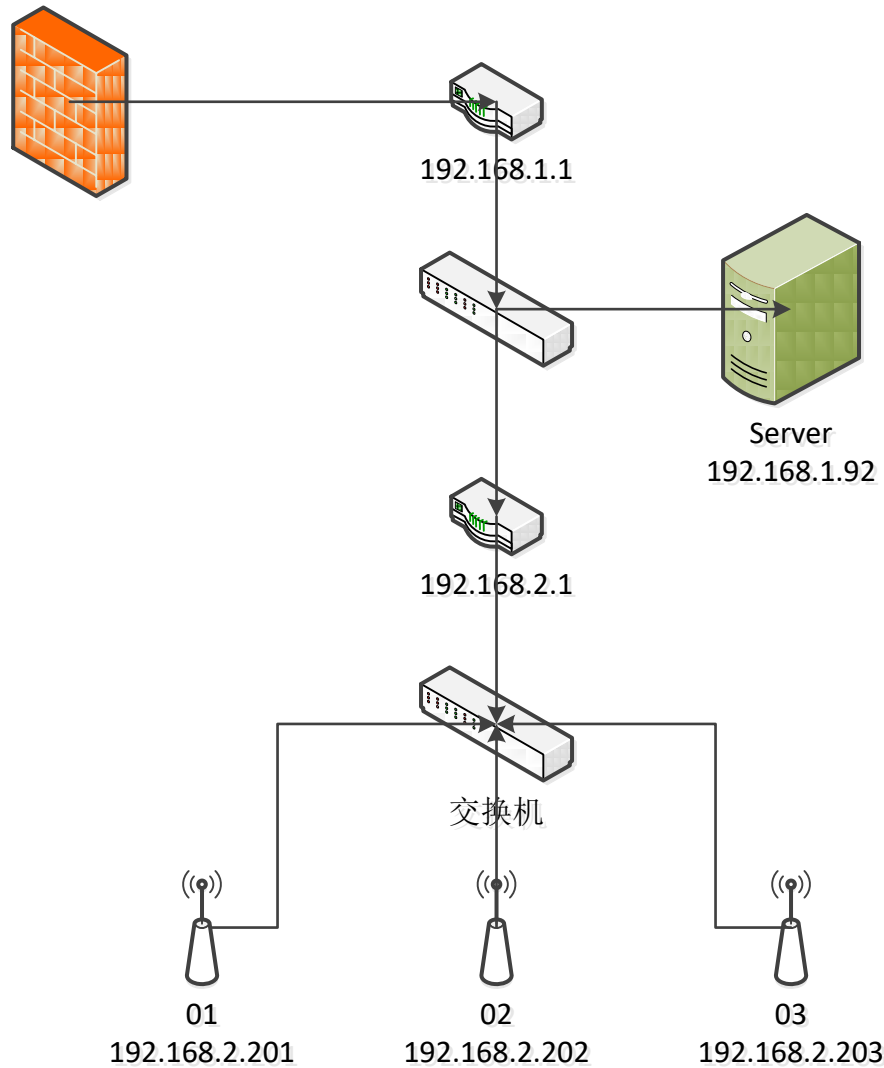
This environment, same as in the previous section, only requires the base station and the server in the same LAN as the local area network. The ID of each base station must be unique.



3.3 LAN: Different network segments:

This situation applies to the server and the base station is not in the same segment of the LAN. The network topology is as follows:

Case one: father and son network segment.

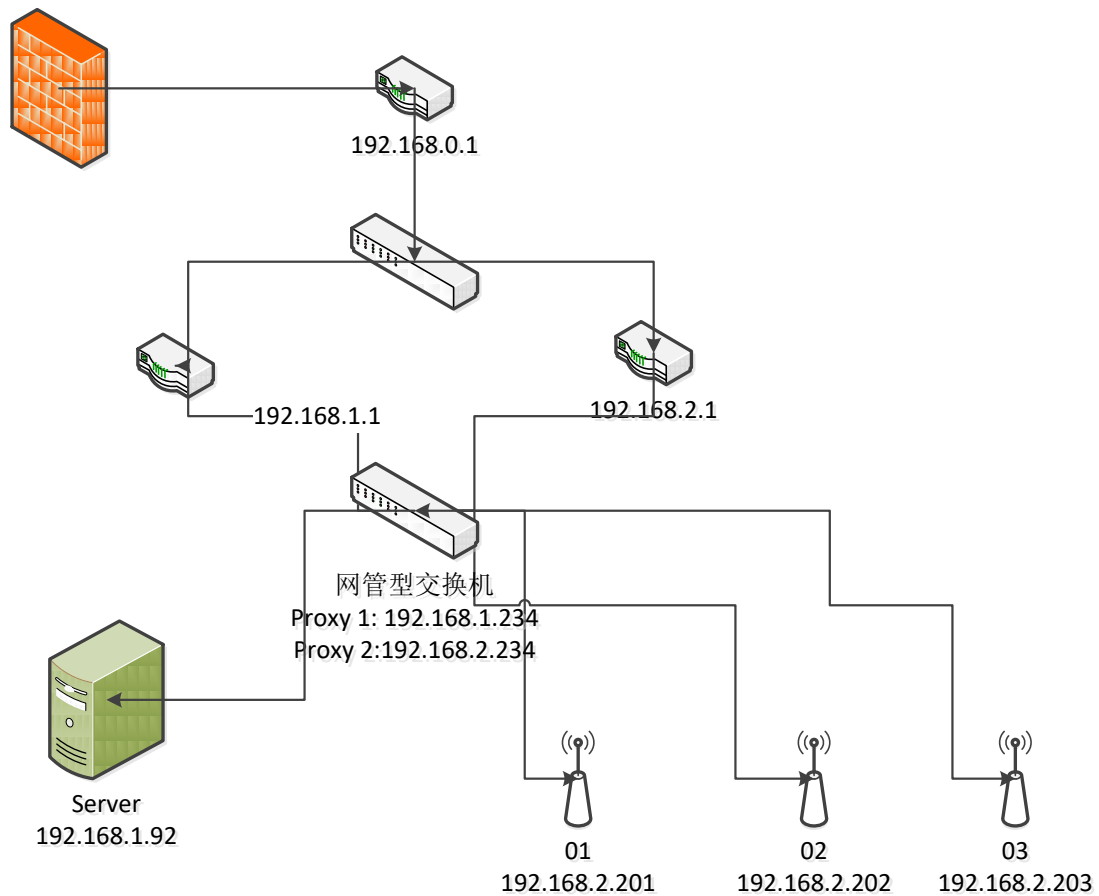


Server needs to be located in the upper LAN, the base station is located in the lower LAN. Taking 01 base station as an example, the configuration is as follows:

Attributes	Value
ID	01
IP	192.168.2.201
Gateway	192.168.2.1
Server	192.168.1.92



Case two: brother segment.



Note: If set it in the brother network segment, you need to set up a management switch between it in order to achieve routing conversion.

The server needs to be in the LAN segment 192.168.1.XXX, and the base station is in the LAN segment 192.168.2.XXX. Taking 01 base station as an example, the configuration is as follows:

Attributes	Value
ID	01
IP	192.168.2.201
Gateway	192.168.2.234 (Here is the address of the management switch)
Server	192.168.1.92

