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(I)GW11XX Modbus Gateway

CLI User Manual

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3onedata
Make network communication more reliable

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Preface

The CLI user manual describes the Modbus Gateway device:

- CLI command configuration

Note

The screenshot reference model for this manual is GW1118-8D (3IN1) Modbus. Other types of products in addition to supporting the serial type (RS-232, RS-422, RS-485) and the number of serial ports are different, the functions and CLI commands are the same.

Audience

This manual applies to the following engineers:

- Network administrators
- Technical support engineers
- Hardware engineers

Conventions

Format	Description
“ ”	Words with the symbol “” mean that those are interface words. Fox example “Port number”.
>	Multiple paths are separated by the symbol ‘>’.
Light blue Font	Click light blue font to hyperlink The font color is as follows: ‘Light Blue’.
About This Chapter	The section ‘about this chapter’ provide links to various sections of this chapter, as well as links to the Principles Operations Section of this chapter.

Symbols

Format	Description
Notice	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance deterioration, or unanticipated results.

Format	Description
	NOTICE is used to address practices not related to personal injury.
 Warning	Ndicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
 Note	Calls attention to important information, best practices and tips. NOTE is used to address information not related to personal injury, equipment damage, and environment deterioration.
 Key	The tips of configuration and operation.

Revision History

Version No.	Date	Revision note
01	July 24, 2017	Manual Development
02	August 16, 2017	Manual Maintenance
03	October 26, 2017	Add dual network ports function
04	December 27,2017	Add IP mapping function

Contents

1 Access to Modbus Gateway

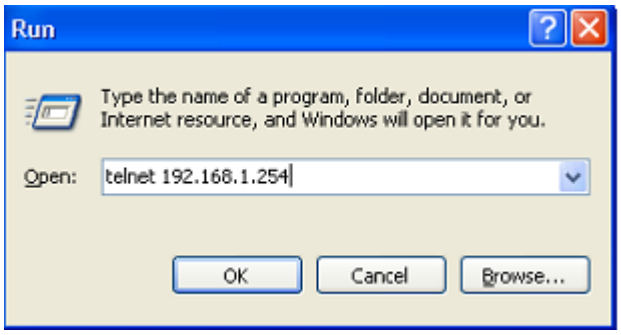
1.1 Configuration through Telnet

Terminal device use telnet connect to Modbus gateway through PC, the requirements are as follows:

- The IP address of Modbus gateway can get it by search or modify (Use IP command under the system management view).
- If PC and Modbus gateway device in the same local area network, the IP address must in a same network segment, otherwise, PC and Modbus gateway device must cross-router.

If satisfied these two requirements, can use telnet access to Modbus gateway device, and configure the Modbus gateway device.

- After establish configuration environment, just connect PC's Ethernet port connect to Modbus gateway device's Ethernet port through Local area network.
- Before access Modbus gateway through Telnet, need to input "**Telnet**+ Space+ Modbus gateway's **IP address**" for checking, figure as follows:

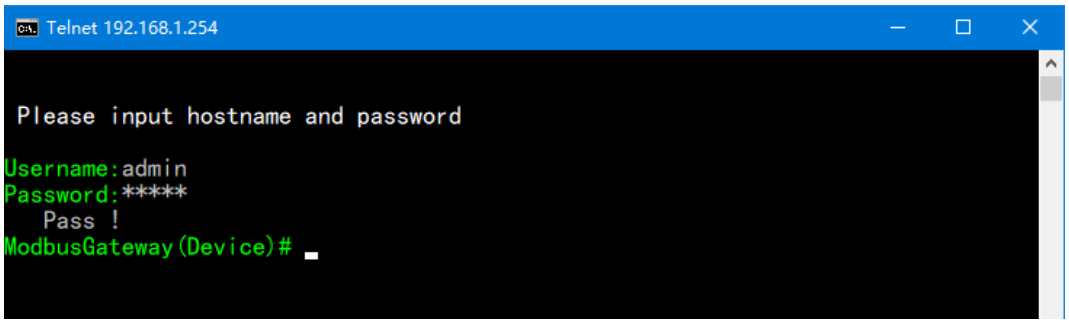


Note:

- As for dual network ports device, the default IP of Lan1 is 192.168.1.254, the default IP of Lan1 is 192.168.8.254.
- As for single network port device, the default IP is 192.168.1.254.

- Hit "Enter", checkout successful and till PC show"Please input hostname and

password", ask user to input user name and password, default is admin, figure as follows:



Note:
The default user name and password are "admin".

- Use command to configure Modbus gateway and check the running status, if need help, please input"?" at any time. Specific configuration command please reference "Modbus Gateway CLI user manual".

1.2 Agreement

1. Command line format agreement table as follow:

Format	Description
italic	Parameter of the command show *italic type.*
[ ]	It shows part in "[]"is optical when command configuration is need.
{ x | y | ... }	It shows to pick up one from two or more items.
[x | y | ...]	It shows to pick up one or no one from two or more items.
{ x | y | ... }	It shows to pick up one at least, all at most from two or more items.
Bold	Key words of the command show by bold type.

2. Format agreement of figure interface table as follows:

Format	Description
< >	"< >" shows press name, like "click<OK>"
[ ]	"[ ]" shows windows name, menu name and data list. like "eject [create user]window"
/	Multilevel is separated by "/". Like [file/create/folder] means[create] a [folder] under the menu of [file]

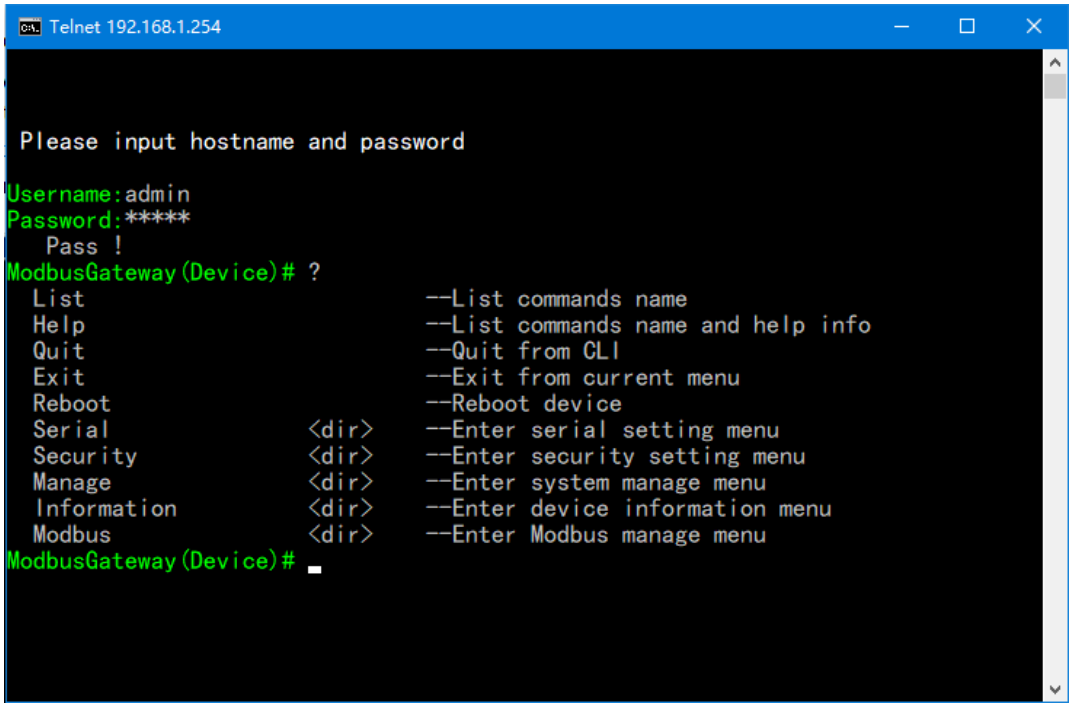
1.3 Command line port

Modbus gateway provides command lines port and its configuration for user's easy configuration and management. Command lines port includes the following features:

- Local configuration through LAN port;
- Supports history command saving which means it can save 10 pieces. History commands can be selected by up and down key.
- User can type in "help" or"?" to get some help;
- Supports intelligent complement with Tab when commands input;
- Command interpreter take the method of partial matching. User can type in conflict-free key words, such as config command, only need to type in conf.

1.3.1 View of Command Lines

Modbus gateway view of command lines aim at configuration of different functions. First of all, Modbus gateway establish connection, then finish the verification of user name and password, after enter the correct user name and password, enter "help or ?" in "Device#", enter into system view, Under the view of system, corresponding view appears after typing indifferent command, figure as follows:



View	Function	DOS Prompt	Enter	Quit

View	Function	DOS Prompt	Enter	Quit
System View		Device #	Help or ?	Quit and return to user login
Modbus	Show or modify Modbus information, such as setting the slave ID mapping configuration	ModbusGateway (Modbus)#	**Modbus**	Exit and return to the system view
serial	Show or modify serial information，like as baud rate, data bit, flow control	ModbusGateway (Serial)#	**Serial**	
Security	Show or modify the IP and MAC address filtering, user name and password settings	ModbusGateway (Security)#	**Security**	
manage	Show or modify IP address and subnet mask, Set Console Overtime and Reset to default configure	ModbusGateway (manage)#	**Manage**	
Information	Show or modify device type, name, device description, serial number, contact way, etc	ModbusGateway (information)#	**Information**	

1.3.2 Command lines online help

Command lines port provides the following online help:

- Total help
- Partial help

1. Total help

- Type in <?> to get all commands and their description.

Example:

```
ModbusGateway(Device)# ?
  List                        --List commands name
  Help                        --List commands name and help info
  Quit                        --Quit from CLI
  Exit                        --Exit from current menu
  Reboot                      --Reboot device
  Serial              <dir>    --Enter serial setting menu
  Security            <dir>    --Enter security setting menu
  Manage              <dir>    --Enter system manage menu
  Information          <dir>    --Enter device information menu
  Modbus              <dir>    --Enter Modbus manage menu
```

- Type in a command and “?”, between there is a space, if key word is in this location, then type in all keywords and descriptions.

```
ModbusGateway(Device)# information
ModbusGateway(System)# show ?
  mac                        --Device MAC address
  version                     --Device version
  others                      --Device name,type,etc
```

2. Partial help

- Type in a character string with <?>. List all commands beginning with this character string.

Example:

```
ModbusGateway(Device)# m?
  Manage              <dir>    --Enter system manage menu
  Modbus              <dir>    --Enter Modbus manage menu
```

- Type in former letters of some key word of the command, press<Tab> key. If the letters are unique, it can show the completed key word.

Example:

```
ModbusGateway(Device)# inf + <Tab>
ModbusGateway(Device)# information
```

1.3.3 Frequent Incorrect Information of Command Lines

All commands typed by users, if it is certificated by grammar, it can run correctly, or users will be sent incorrect information. Frequent incorrect information is in table as below:

English incorrect information	Reason
Invalid Command	Command cannot be found.

English incorrect information	Reason
	Key word cannot be found.
	The type of parameter is wrong.
	The parameter is beyond the border.
Incomplete Command	Command is not completed.
Too many parameters	Parameter is too much.
Must One To One option!	Based mode is necessary

1.3.4 History command

Command lines port can provides the function similar to Doskey. It automatic save command lines that users types in, and users can use these history commands. Detailed operating please check table as follows:

Operating	Key	Result
Visit previous history command	Up <↑>	If exists earlier command, it is taken out.
Visit next history command	Down <↓>	If exists later command, it is taken out.

2 Modbus configuration

This series of product settings include slave ID mapping table configuration and related timeout settings.

2.1 Enter into the view of Modbus information

Note

The screenshot reference model for this manual is GW1118-8D (3IN1) Modbus. Other types of products in addition to supporting the serial type (RS-232, RS-422, RS-485) and the number of serial ports are different, the functions and CLI commands are the same.

Please check the view as figure.

Note

In the table description, the number of ports and the type of serial port that is supported are different depending on the device.

Operating	Command	Description
Enter into the view of Modbus information	Modbus	Run in the view of system
Add gateway TCP Slave entry	AddGateWayT <RemoteIP> <RemotePort> <VIDmin> <VIDmax> <Offset>	<RemoteIP> --Remote Ip such as 192.168.1.254 <RemotePort> --Config RemotePort:1-65535 <VIDmin> --Config VIDmin:0-247 <VIDmax> --Config VIDmax:0-247 <Offset> --Config Offset:(-253)-(253)

Operating	Command	Description
Delete gateway TCP Slave entry	DelGateWayT <Index>	<Index> --Config Index: 1-32
Set serial gateway entry	SetGateWayS <Index> <DeviceType> <VIDmin> <VIDmax> <Offset>	<Index> --Config Index: 1-8 <DeviceType> --serial DeviceType 1 --RTU Master 2 --RTU Slave 3 --ASCII Master 4 --ASCII Slave <VIDmin> --Config VIDmin:0-247 <VIDmax> --Config VIDmax:0-247 <Offset> --Config Offset:(-253)-(253)
Set TCP response time	SetTcpRespinseTime <RespinseTime>	<RespinseTime> --ResponseTime:10-120000ms
Set response timeout and interval timeout	SetSerialResponseTime <Index> <ResponseTime> <Inter_character_Timeout> <Inter_frame_Delay>	<Index> --Config Index: serial:1-8 <ResponseTime> --ResponseTime:10-120000ms <Inter_character_Timeout> --Inter_character_Timeout:0ms,10-500ms <Inter_frame_Delay> --Inter_frame_Delay:0ms,10-500ms
Set Initial Delay	SetInitSetting <InitTime> <TcpExceptionEn>	<InitTime> --Config InitTime:0-30000ms <TcpExceptionEn> --TcpExceptionEn 0 --disable 1 --enable

Example: Enter into device information view, enter the bold type command as follows and enter return key.

```
ModbusGateway(Modbus)# ?
  List                      --List commands name
  Help                      --List commands name and help info
  Quit                      --Quit from CLI
  Exit                      --Exit from current menu
  Reboot                    --Reboot device
  SetGateWayS                --Config GateWay
  AddGateWayT                --Config GateWay
  DelGateWayT                --Del GateWayTCP
```

```
Show GateWay                --Show Modbus GateWay information
SetTcpRespinseTime           --Config TCP response time
SetSerialResponseTime        --Config ResponseSetting
Show ResponseTime           --Show Response config information
SetInitSetting              --Config InitSetting
Show InitSetting            --Show Init config information
```

Example: Slave ID Map Table Channel NO.1, Channel type is RTU Slave. Virtual ID Start is 3, Virtual ID End is 3, and Slave ID Offset is 0. Real ID Start is 3, Real ID End is 3.

```
ModbusGateway(Modbus)# setGateWayS 1 2 2 2 0 2 2
  [OK]
```

Example: Add TCP gateway entry, IP address is 192.168.1.11, port number is 200, slave virtual ID is minimum 3, maximum is 3, offset is 0, real ID is minimum 3, maximum 3;

```
Switch (Modbus)# addGateWayT 192.168.1.11 200 3 3 0 3 3
  [OK]
```

Example: Remove the TCP gateway entry with ID mapping table channel 1;Switch (Modbus)# delGateWayT 1

```
  [OK]
```

Example: Set the response time, the communication port is 1, the response timeout is 2000, the character interval timeout time is 20, the frame interval delay time is 20;

```
Switch (Modbus)# setResponseTime 1 2000 20 20
  [OK]
```

Example: Set the delay start time, set the initial delay of 2000, start the Modbus TCP exception

```
Switch (Modbus)# setInitSetting 2000 1
  [OK]
```

2.2 Show Modbus Gateway information

Please check the device information command as table.

Operating	Command	Description
Show Modbus GateWay information	**show GateWay**	Carry out under the

Operating	Command	Description
Show Response config information	**Show ResponseTime**	view of MODBUS information
Show Initial Delay information	**Show InitSetting**	

Example: show Modbus gateway information

```
ModbusGateway(Modbus)# show gateWay
  VirtualSerialEn :   Disable

  Index           Mode      VIDMin  VIDMax  Offset  RIDMin  RIDMax
  PORT1           RTU    Master   0       0       0       0       0
```

Example: show Response Timeout and Interval Timeout information

```
ModbusGateway(Modbus)# show ResponseTime
  name  Index  ResponseTimeout  InterCharacterTimeout
InterFrameDelay
```

Example: Show Initial Delay information

```
ModbusGateway(Modbus)# show InitSetting
   Init Time :          0 ms
   TcpExceptionEn :    Enable
```

3 Serial Setting

3.1 Enter into the view of serial information

Note

The screenshot reference model for this manual is GW1118-8D (3IN1) Modbus. Other types of products in addition to supporting the serial type (RS-232, RS-422, RS-485) and the number of serial ports are different, the functions and CLI commands are the same.

Please refer to table to set up the view serial command.

Note

In the table description, the number of ports and the type of serial port that is supported are different depending on the device.

Operating	Command	Description
Enter into the view of serial information	**Serial**	Run in the view of system
Set Serial alias	Com alias <port> <alias>	*<port>* --1-8 < alias > --alias:1-30 chars

Operating	Command	Description
Set serial baud rate	Com baudrate <*port*> < *baudrate* >	<*port*> --1-8 <*baudrate*> --*serial Baudrate* *Tip:* *{300,600,1200,2400,4800,9600,19200,38400,57600,115200, }* Note： Some DIN-rail devices support baud rates 230400, 460800 and 921600.
Set serial data bits, stop bits and parity bits	Com linctrl <*port*> <*parity*> <*databits*> <*stopbits*>	<*port*>: --1-8 <*parity*> --Parity 0 --None 1 --Odd 2 --Even 3 --Mark 4 --Space <*databits*> --Databits 2 --7bits 3 --8bits <*stopbits*> --Stopbits 0 --1bit 1 --2bits
Set serial mode	Com mode <*port*> <*mode*>	<*port*>: --1-8 <*mode*> --*com mode* 0 --RS232 1 --RS485/RS422
Set flow control	Com flow_ctrl <*port*> <*flow_ctrl*>	<*port*> --1-8; <*flow_ctrl*> --*flow ctrl* 0 --None 1 --RTS/CTS 2 --Xon/Xoff 3 --DTR/DSR
Set serial RTS	Com rts <*port*> <*rts*>	<*port*>: --1-8; <*rts*> --*rts ctrl* *0* --*Auto* *1* --*On* *2* --*Off*

Operating	Command	Description
Set serial DTR	Com dtr *<port> <dtr>*	*<port>*: --1-8; *<dtr>* --dtr ctrl *0* --Auto *1* --On *2* --Off

Example: Enter into serial information view, enter the bold type command as follows and enter return key.

```
ModbusGateway(Serial)# ?
  List                  --List commands of current menu
  Help                  --Help commands of current menu
  Quit                  --Quit from CLI
  Exit                  --Exit from current menu
  Reboot                --Reboot switch
  Show config           --Show COM config information
  Show com_state        --Show com state info
  Com alias             --COM set
  Com buadrate          --COM set
  Com linctrl           --COM set
  Com mode              --COM set
  Com flow_ctrl         --COM set
  Com rts               --COM set
  Com dtr               --COM set
```

Example: Set the serial COM1 Parameters, the parity bit is ODD, the data bits are 8, and the stop bit is 2.

```
ModbusGateway(Serial)# Com Linctrl 1 1 3 1
  [OK]
```

Example: Set the serial COM1 Parameters, the alias is 111.

```
ModbusGateway(Serial)# com alias 1 111
  [OK]
```

Example: Set the serial COM1 Parameters, the baud rate is 300.

```
ModbusGateway(Serial)# com buadrate 1 300
  [OK]
```

Example: Set the serial COM1 Parameters, the flow control is RTS/CTS.

```
ModbusGateway(Serial)# com flow_ctrl 1 1
  [OK]
```

Example: Set the serial COM1 Parameters, the RTS is disable.

```
ModbusGateway(Serial)# com rts 1 2
  [OK]
```

Example: Set the serial COM1 Parameters, the DTR is disable.

```
ModbusGateway(Serial)# com dtr 1 2
  [OK]
```

3.2 Display serial information

Please check the serial information command as table

Note

In the table description, the number of ports and the type of serial port that is supported are different depending on the device.

Operating	Command	Description
Show the serial information	**Show config**<port_list>	<*port_list*>:1~8
Show the serial state	**Show com_state**<port_list>	<*port_list*>:1~8

Example: Enter into device information view, enter the bold type command as follows and enter return key

```
ModbusGateway(Serial)# show config 1
COM<1>
   Alias:
   COM work mode:      RS232
   Buadrate:           115200(bps)
   Data bit:           8(bits)
   Parity bit:         NONE
   Stop bit:           1(bits)
   Flow ctrl:          None
   FIFO ctrl:          Enable
   Rts ctrl:           AUTO
   Dtr ctrl:           AUTO
```

4 Device Security Management

4.1 Enter into the view of Security Management

Please check the device information command as table

Operating	Command	Description
Enter into the view of device information	**Security**	Run in the view of system
Set user management	UserManage Add *<username>* *<password>* *<affirm>* *<user_level>*	*<username>* --user name:No more than 20 characters *<password>* --password:No more than 20 characters *<affirm>* --affirm password *<user_level>* --user level: --0 guest --1 administrator
Modify user management	UserManage modify *<name_index>* *<username>* *<password>* *<affirm>* *<user_level>*	*<name_index>* *--name index:user name index* *<username> --user name* *<user_level> --user level:* *0 guest* *1 administrator*
Delete user management	UserManage delete *<user_index>*	*<user_index>* --user name:No more than 20 characters

Operating	Command	Description
IP filter set	IpFilter def <*def_permission*>	<*def_permission*> --*0:forbidden* *1:allow*
IP address filter enable setup	IpFilter set <*filter_en*>	<*filter_en*> --*0:disable* *1:enable*
Modify IP address filtering entries	IpFilter modify <*list*> <*state*> <*permission*> <*ip*> <*netmask*>	<*list*> *1-16* <*state*> --*0:disable* *1:enable* <*permission*> --*0:forbidden 1:allow* <*ip*> --*ip address* <*netmask*> --*netmask*
Submit IPFilter config	Submit IPFilter_config <submit>	<*submit*> --*1:submit*
MAC address filter enable setup	MacFilter enable <*filter_en*>	<*filter_en*> --*0:disable 1:enable*
MAC filter set	MacFilter def <*def_permission*>	<*def_permission*> --*0:forbidden* *1:allow*
Modify NAC address filtering entries	MacFilter def<*list_id*> <*state*> <*access_permission*> <*MAC_addr*>	<*list_id*> *1-16* <*state*> --*0:disable* *1:enable* <*access_permission*> --*0:forbidden* *1:allow* <*MAC_addr*> --*MAC address:xx.xx.xx.xx.xx.xx*
Submit MacFilter config	Submit MacFilter_config <submit>	<*submit*> --*1:submit*
Set device security funtion	Device modify <*web_console*> <*telnet_console*> <*serach*> <*upgrade*>	<*web_console*> *0:disable 1:enable* <*telnet_console*> *0:disable 1:enable* <*serach*> *0:disable 1:enable* <*upgrade*> *0:disable 1:enable*

Example: Enter into device information view, enter the bold type command as follows and enter return key.

```
ModbusGateway(Security)# ?
  List                        --List commands name
  Help                        --List commands name and help info
  Quit                        --Quit from CLI
  Exit                        --Exit from current menu
  Reboot                      --Reboot device
  UserManage show             --Show user infomation
  Auth                        --Set authentication
  UserManage add              --Add a user
  UserManage modify           --Modify a user
  UserManage delete           --Delete a user
  IpFilter show               --Show ip filter
  IpFilter set                --Set ip filter control
  IpFilter def                --Set ip filter default perimission
  IpFilter modify             --Modify ip filter list
  Submit IPFilter_config      --Submit IPFilter config
  MacFilter show              --Show mac filter
  MacFilter set               --Set mac filter control
  MacFilter def               --Set mac filter default perimission
  MacFilter modify            --Modify mac filter list
  Submit MacFilter_config     --Submit MacFilter config
  Device show                 --Show device security
  Device modify               --Modify device security
```

Example: Set the user name and password are admin123.

```
ModbusGateway(Security)# userManage add admin123 admin123
admin123 1
  [OK]
```

Example: set the user management 2 of the user name and password are set to admin111, for the administrator.

```
ModbusGateway(Security)# userManage modify 2 admin111 admin111
admin111 1
  [OK]
```

Example: User management entries delete.

```
ModbusGateway(Security)# userManage delete 2
  [OK]
```

Example: set the IP filter rule to prohibit access

```
ModbusGateway(Security)# ipFilter def 0
  [OK]
```

Example: modify the status of IP filtering rule entries 1 to allow, access permission for the permission to access, allowing access to the address 192.168.2.188, subnet mask is set to 255.255.255.0

```
ModbusGateway(Security)## ipFilter modify 1 1 1 192.168.2.188
255.255.255.0
  [OK]
```

Example: modify the status of MAC filtering rule entry 1 to allow, access permission to allow access, allowing the MAC address for 00.00.00.00.00.01

```
ModbusGateway(Security)# macFilter modify 1 1 1 00.00.00.00.00.01
  [OK]
```

4.2 Display Security Management

Please check the security information command as table

Operating	Command	Description
Display user management information	UserManage show	
Display IP filtering information	IpFilter show *<list_id>*	*<list_id>* *--1-16 or all*
Display MAC filtering information	MacFilter show *<list_id>*	*<list_id>* *--1-16 or all*
Display device security settings information	Device show	

Example: Display serial COM1 basic parameters set information

```
ModbusGateway(Security)# userManage show
user_index:1          user_name:admin
user_level:administrator
user_index:2          user_name:admin123   user_level:guest
user_index:3          user_name:admin1      user_level:guest
```

Example: display IP address filtering item 1 information

```
ModbusGateway(Security)# ipfilter show_details 1
list_id:1
   state:             enable
   acess permission:    allow
   ip address:         192.168.2.188
   subnet mask:        255.255.255.0
```

Example: display MAC address filtering item 1 information

```
ModbusGateway(Security)# macFilter show_details 1
list_id:1
   state:             enable
   acess permission:    allow
   mac address:        00.00.00.00.00.00
```

Example: display device security settings information

```
ModbusGateway(Security)# device show
web:     Enable
telnet:  Enable
search:  Enable
upgrade: Enable
```

5 System Management

5.1 Enter into the view of System Management

Please check the device information command as table

Operating	Command	Description
Enter into the view of device information	**Manage**	Run in the view of system
Set ip mode	**Ip_mode <ip_mode>**	<ip_mode> --'0'express staic,'1'express auto
Set gateway	Dual network ports: Gateway *<gateway><eth_port>* Single network port: Gateway *<gateway>*	*<gateway><eth_port>* *<eth_port> ethport* *0 --eth1* *1 --eth2* --gateway address such as 192.168.1.1 1 Notice: The command for dual network ports device and sigle network port device are different.
Set IP address and subnet mask	Ip <ip_address> <mask>	<ip_address> --ip address such as 192.168.1.254 <mask> --subnet mask such as 255.255.255.0

Operating	Command	Description
set dns mode	Dns_mode <dns_mode>	<dns_mode> --'0'express staic,'1'express auto
Set dns address	Dns <dns_address>	<dns_address> --dns address such as 202.94.134.133
Set default port	**Def_eth** *<eth_port >*	*<eth_port >* 0 eth1 1 eth2 Note: Only dual-Ethernet devices support this function.
Display IP mapping table entries	**Show ip_map**	Display IP mapping table entries Note: Only dual-Ethernet devices support this function.
Delete map entry	**Del ip_map***<item_id >*	<item_id >: the number of entries Note: Only dual-Ethernet devices support this function.
Add a mapping table entry	**Add ip_map***<dest_ip><netmask>* *<eth_port >*	*<dest_ip>* Destination address *<netmask >* subnet mask *<eth_port >* default port Note: Only dual-Ethernet devices support this function.
Set reportdestaddr parameters	Set_reportdestaddr <reportdestip> <reportdestport> <reportperiod>	<reportdestip> --reportdestipaddress <reportdestport> --reportdestport form 1 to 65535 <reportperiod> --reportperiod form 1 to 65535
Set overtime	Set console_timeout <time_out>	<time_out> --Range [0-60] minutes 0 --Close timeout function

Operating	Command	Description
Reset to default config	Restore	

Example: Enter into device information view, enter the bold type command as follows and enter return key

```
ModbusGateway(Device)# manage
ModbusGateway(Manage)# ?
  List                        --List commands name
  Help                        --List commands name and help info
  Quit                        --Quit from CLI
  Exit                        --Exit from current menu
  Reboot                       --Reboot device
  Ip_mode                      --Set ip mode
  Gateway                      --Set gateway
  Ip                          --Set ip address and subnet mask
  Dns_mode                     --set dns mode
  Dns                         --Set dns address
  Show net_config               --Show net config
  Show reportdestaddr           --Show reportdestaddress
  Set_reportdestaddr            --set reportdestaddr parameters
  Set console_timeout           --Set console timeout
  Restore                      --Reset to default config
```

Example: set the device gateway to 192.168.2.1

```
ModbusGateway(Manage)# gateway 192.168.2.1 0
  [OK]
  The device is rebooting. Please waiting.........
bl_ver:
V1.0.0_20170116R
```

Example: set the timeout period to 60min

```
ModbusGateway(Manage)# set 60
  [OK]
```

5.2 Display System Management

Please check the device information command as table

Operating	Command	Description

Operating	Command	Description
Display IP mapping information	**Show ip_map**	Carry out under the view of system management
Display the network configuration information	**Show net_config**	Carry out under the view of system management
Display report dest address information	**show reportdestaddr**	Carry out under the view of system management

Example: display IP mapping information

ModbusGateway(Manage)# show ip_map

IP_MAP

NO	DestIP	NetMask	Eth
1	192.168.1.36	255.255.255.0	1

Example: display device address information

```
ModbusGateway(Manage)# show net_address
  Device IP address   :   192.168.1.254
  Device mask address :   255.255.255.0
  Device gateway      :   192.168.1.1
```

6 Device Information

6.1 Enter into the view of device information

Please check the device information command as table

Operating	Command	Description
Enter into the view of device information	**Information**	Run in the view of system
Device type setting	DeviceType <*string*>	<*string*> --parameters
Device Name setting	DeviceName <*string*>	<*string*> --parameters
Device description setting	DeviceDescrip <*string*>	<*string*> --parameters
Device number setting	SerialNumber <*string*>	<*string*> --parameters
Connection way setting	ContactWay <*string*>	<*string*> --parameters

Example: Enter into device information view, enter the bold type command as follows and enter return key.

```
ModbusGateway(Device)# information
ModbusGateway(System)# ?
  List                      --List commands name
  Help                      --List commands name and help info
  Quit                      --Quit from CLI
  Exit                      --Exit from current menu
  Reboot                    --Reboot device
  Show mac                  --Show device MAC address
  Show version              --Show device version
  Show others               --Show device name,type,etc
  DeviceType                --Config device type
  DeviceName                --Config device name
  DeviceDescrip             --Config device description
```

```
  SerialNumber                --Config serial number
  ContactWay                  --Config contact way
```

Example: set the device type is 123456.

```
ModbusGateway(System)# deviceType 123456
  [OK]
```

Example: setting the device name is 2222222.

```
ModbusGateway(System)# deviceName 2222222
  [OK]
```

Example: setting the device description is 333333.

```
ModbusGateway(System)# deviceDescrip 333333
  [OK]
```

Example: setting the device number is 4444444.

```
ModbusGateway(System)# serialNumber 4444444
  [OK]
```

Example: setting the contact information for 555555555.

```
ModbusGateway(System)# contactWay 555555555
  [OK]
```

6.2 Display device information

Please check the device information command as table 6.2.1

Note

In the table description, the number of ports and the type of serial port that is supported are different depending on the device.

Operating	Command	Description
Show system version	**show version**	Carry out under the view of device information
Show MAC address of device	**show mac**	
Show Device Type, Name, etc.	**show others**	

Example: view the software and hardware version of the device, etc.

```
ModbusGateway(System)# show version
  SoftWare Version : 1.0.0 Build 20170626401R
```

```
  HardWare Version : 2.0.0
  Release  Date    : 10:24:24 , Jul  6 2017
```

Example: check the device model, name, etc.

```
ModbusGateway(System)# show others
  Device type     8COM
  Device name     ModbusGateway
  Description     2LAN
  Serial number   201706080001
  Contact way
```

Example: Check the MAC address

```
ModbusGateway(System)# show mac
  Device MAC address : 00.22.6F.EE.00.01
```

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