Commands

Ports configuration commands

In terms of ports configuration it is possible to change parameters like: service, baud rate, data bits, parity, stop bits and so on. UART commands are provided below.

- **uart**
  - **uart help**
    Print the help message.

  - **uart list**
    List available uarts in the system.

    Example:
    uart list
    0: baud: 9600 bits: 8 stop_bits: 1 parity: none (service console)
    1: baud: 115200 bits: 8 stop_bits: 2 parity: odd (covered by cons.)
    2: baud: 9600 bits: 8 stop_bits: 1 parity: none
    3: baud: 1200 bits: 8 stop_bits: 2 parity: even termination: ON (R-COM)
    3: baud: 38400 bits: 8 stop_bits: 2 parity: none termination: OFF

  - **uart PORT_NUMBER baud BAUD**
    Set PORT_NUMBER baudrate to BAUD. BAUD value can be one of the following:
    2400, 4800, 9600, 14400, 19200, 38400, 57600, 115200.

    Example:
    uart 1 baud 9600

    WARNING: UART covered by console. Changes will take place after the reset.

  - **uart PORT_NUMBER bits BITS**
    Set bit length to BITS. BITS value can be one only 8.

    Example:
    uart 2 bits 8

  - **uart PORT_NUMBER stop_bits STOP_BITS**
    Set stop_bits length to STOP_BITS. STOP_BITS value can be only 1 or 2.

    Example:

uart 2 stop_bits 1

- **uart PORT_NUMBER parity PARITY**
  Set uart parity to PARITY. PARITY value can be one of the following: none, odd, even.

  Example:
  uart 3 parity even

- **uart PORT_NUMBER termination STATE**
  Set uart termination to new STATE. STATE can be only ON or OFF.

  Example:
  uart 3 termination ON

- **uart_service**
  - **uart_service help**
    Print the help message.

  - **uart_service list**
    List of uarts services status.

    Example:
    uart_service list
    1 state: ON service: Remote COM port: 1504 enc: YES
    2 state: OFF service: TCP Socket port: 1510
    3 state: OFF service: UDP Socket port: 1510

  - **uart_service UART_NUMBER state STATE**
    Set UART_NUMBER state to STATE. STATE value can be only ON or OFF.

    Example:
    uart_service 1 state ON

  - **uart_service UART_NUMBER service SERVICE**
    Set UART_NUMBER service to SERVICE. SERVICE value can be one of the following: Remote COM, TCP Socket, UDP Socket.

    Example:
    uart_service 1 service TCP Socket

- **uart_service UART_NUMBER port PORT_NUMBER**
  Set UART_NUMBER port to PORT_NUMBER. PORT_NUMBER value can be any in the range: 1-65535.

  Example:
  uart_service 1 port 1501

- **uart_service UART_NUMBER enc ENC_STATE**
  Set UART_NUMBER encryption to ENC_STATE. ENC_STATE can be only YES or NO.

  Example:
  uart_service 1 enc YES

  If ENC_STATE is YES then it will ask for a new password for encryption.

Network settings

The following commands might be helpful to change network settings according to target LAN parameters.

- **ipconfig**
  - **ipconfig addr ADDRESS**
    Set IP address to ADDRESS.

    Example:
    ipconfig addr 192.168.0.10

  - **ipconfig mask NETMASK**
    Set subnet mask to NETMASK (in dot-decimal format).

    Example:
    ipconfig mask 255.255.255.0

  - **ipconfig mask BIT_COUNT**
    Set subnet mask to BIT_COUNT bits.

    Example:
    ipconfig mask 24

- **ipconfig gateway GATEWAY_IP**
  Set network gateway to GATEWAY_IP.

  Example:
  ipconfig gateway 192.168.0.1

- **ipconfig dhcp enable/disable**
  Enable or disable DHCP client.

  Example:
  ipconfig dhcp enable

- **ipconfig dns1 ADDRESS**
  Set primary DNS to ADDRESS, disable getting DNS from DHCP if enabled.

  Example:
  ipconfig dns1 192.168.100.1

- **ipconfig dns2 ADDRESS**
  Set secondary DNS to ADDRESS, disable getting DNS from DHCP if enabled.

  Example:
  ipconfig dns2 1.1.1.1

- **eth_mac**
  - **eth_mac help**
    Print the help message.

  - **eth_mac default**
    Set device’s MAC address to factory-default one.

  - **eth_mac set MAC_ADDR**
    Set device’s MAC address to MAC_ADDR. Accepts both dash and colon-separated formats.

    Example:
    eth_mac set 01-02-03-04-05-06

    Example:
    eth_mac set 01:02:03:04:05:06

- **http_port**
  - **http_port help**
    Print the help message.

- **http_port PORT_NUMBER**
  Set http port to PORT_NUMBER. A PORT_NUMBER value must be in range: 1-65535.

  Example:
  http_port 80

- **http_port status**
  Print current http port.

  Example:
  http_port status
  A current http port is 80

- **telnet_port**
  - **telnet_port help**
    Print the help message.

  - **telnet_port PORT_NUMBER**
    Set Telnet port to PORT_NUMBER. A PORT_NUMBER value must be in range: 1-65535.

    Example:
    telnet_port 23

  - **telnet_port status**
    Print current Telnet port.

    Example:
    telnet_port status
    A current telnet port is 23

Changing username or password

To change username or password, use user command. Available commands:

- **user help**
  Print the help message.

- **user mod_name USER_NAME NEW_NAME**
  Change the user name to NEW_NAME. It fails if the name is used by another user.

  Example:
  user mod_name admin john

- **user passwd USER_NAME**
  Change USER_NAME's password.

Example:
user passwd admin
****** <- here is entered password, but '*' appears instead

Note: Everyone can change the password for themselves.

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