

# UPS SNMP CLI

## User's Manual

### **Milpower Source UPS CLI interface**

Firmware version: 2.02.13 and higher

## Table of contents

Table of contents.....	2
Chapter 1. Introduction.....	3
a. Scope.....	3
b. General.....	3
Chapter 2. Installation and Configuration Management.....	3
a. Required Hardware and Software.....	3
b. Starting a Session.....	3
c. CLI Menus .....	4

## **Chapter 1. Introduction**

### ***a. Scope***

This manual is relevant only for M359 UPS of Rev E or higher with Ethernet (SNMP) option.

### ***b. General***

The UPS's Command Line Interface (CLI) allows the configuration of Milpower Source's UPS from a PC station by using an RS232 connection. The only software required for the configuration is a VT100 terminal so the configuration can be done both from Windows and from Linux. This manual is relevant only for M359 Rev E and higher UPS.

## **Chapter 2. Installation and Configuration Management**

### ***a. Required Hardware and Software***

1. PC computer with serial VT100/VT220/VT320 terminal (such as HyperTerminal available with Microsoft windows)
2. DB9 straight through cable.

### ***b. Starting a Session***

1. Connect your computer to the UPS using a 9 pin serial (RS232) cable.
2. Verify that the UPS is on.
3. Open a serial VT100/VT220/VT320 terminal.
4. Set the connection definitions to baud rate '19200', data '8' bit, parity 'none', stop bits '1', flow control 'none'.
5. Press "Enter" key. The following report will be shown on the terminal screen.

```
Tera Term - COM1 VT
File Edit Setup Control Window Help

MilPower Agent Firmware UM359 agent 2.02.13 Build data: July 18 2011
System unique ID - 38:FF:DF:05:30:56:31:34:30:29:15:43
System mac addr - 00:04:A3:2A:37:D6
SNMP version - 2
MIB version - 2.04

DHCP for IP settings Disabled
IP address - 192.168.0.19
Netmask - 255.255.255.0
Default gateway - 192.168.0.1

get community string - public
set community string - private
trap community string - trap
```

6. Note the firmaware version on top of the screen. If the version is below 2.02.13 then the agent firmaware should be upgraded to allow CLI interface. For the upgrade procedure refere to MPS web site.
7. If you do not see this screen check the following:
  - a. Is the UPS connected to the PC with a pin-to-pin (not crossover) RS232 cable?
  - b. Is it connected to the right COM port?
  - c. Is the UPS turned ON?
  - d. Verify that the UPS is revision E.
8. Type 'console ' (with single space) followed by admin password (default 'webpass').
9. If the password is correct then the CLI main menu will be displayed on screen as described in next chapter.

### **c. CLI Menus**

1. After login to the CLI, all Ethernet communications will cease until agent reboot. This does not influence the UPS controller, so the UPS would continue working as before.
2. The CLI has a 5 minute timeout, so that after 5 minutes of inactivity the agent will log you out and reboot. Any action restarts the time counter.
3. The following screenshots show the available menus.
4. Press relevant keys to move between menus. No need to press 'enter'
5. After finishing all updates, press 'r' in the main menu to reboot.
6. On each menu, press 'b' to move back one level, numbers are used to choose options.
7. In various occasions when you required typing some value a default/current value will be displayed in square brackets. Press ENTER without typing anything to accept/leave the current value displayed or type a new one.

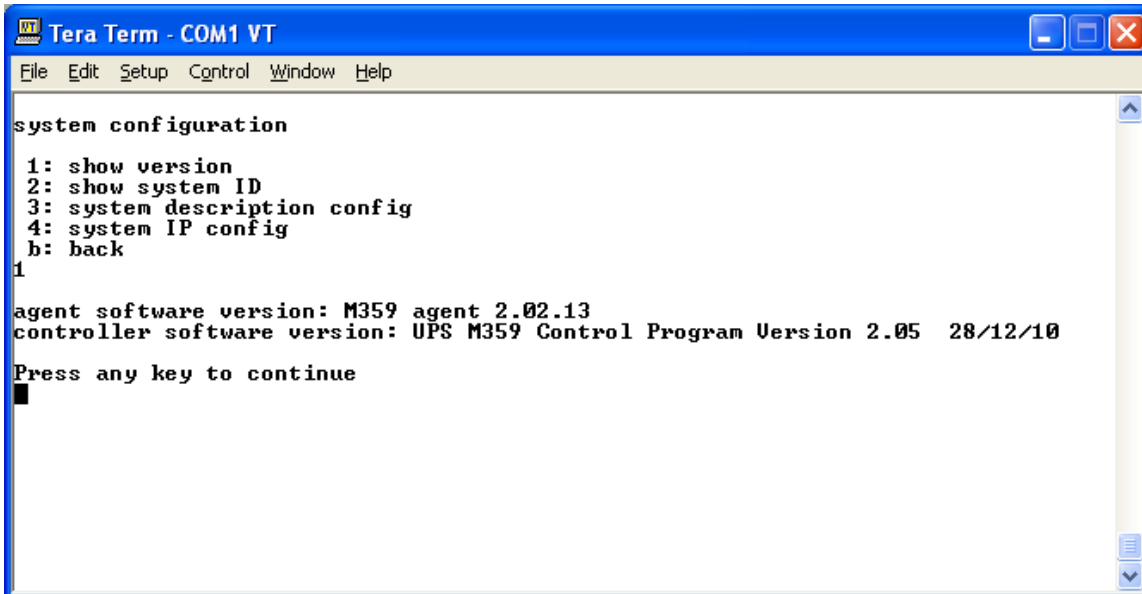
# Main menu:



## 1. System configuration:



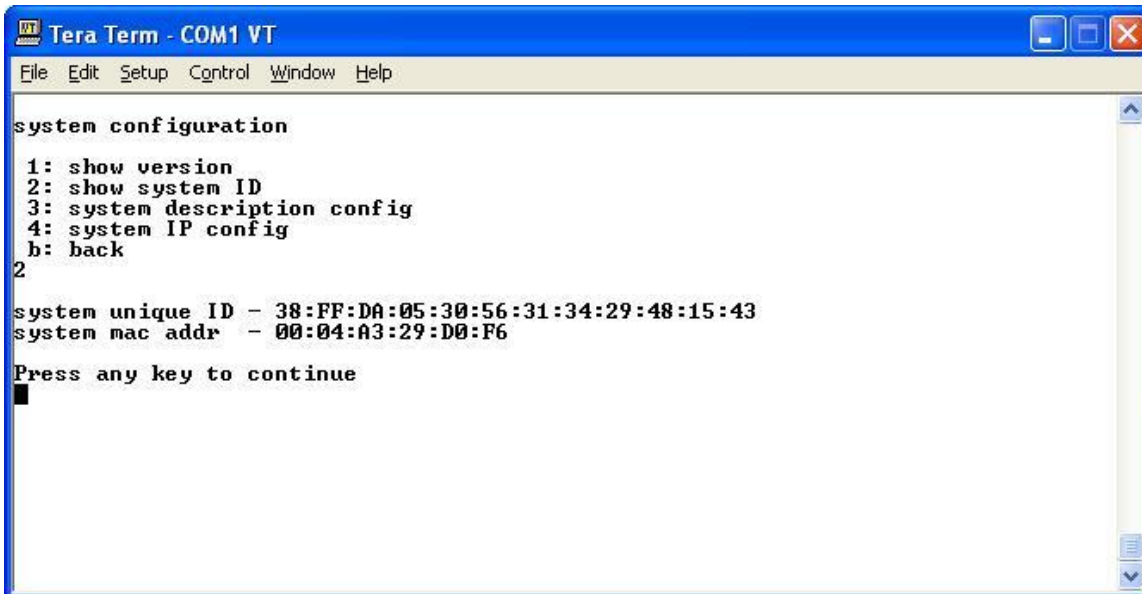
## 1.1. System version



```
Tera Term - COM1 VT
File Edit Setup Control Window Help

system configuration
1: show version
2: show system ID
3: system description config
4: system IP config
b: back
1
agent software version: M359 agent 2.02.13
controller software version: UPS M359 Control Program Version 2.05 28/12/10
Press any key to continue
█
```

## 1.2. System ID



```
Tera Term - COM1 VT
File Edit Setup Control Window Help

system configuration
1: show version
2: show system ID
3: system description config
4: system IP config
b: back
2
system unique ID - 38:FF:DA:05:30:56:31:34:29:48:15:43
system mac addr - 00:04:A3:29:D0:F6
Press any key to continue
█
```

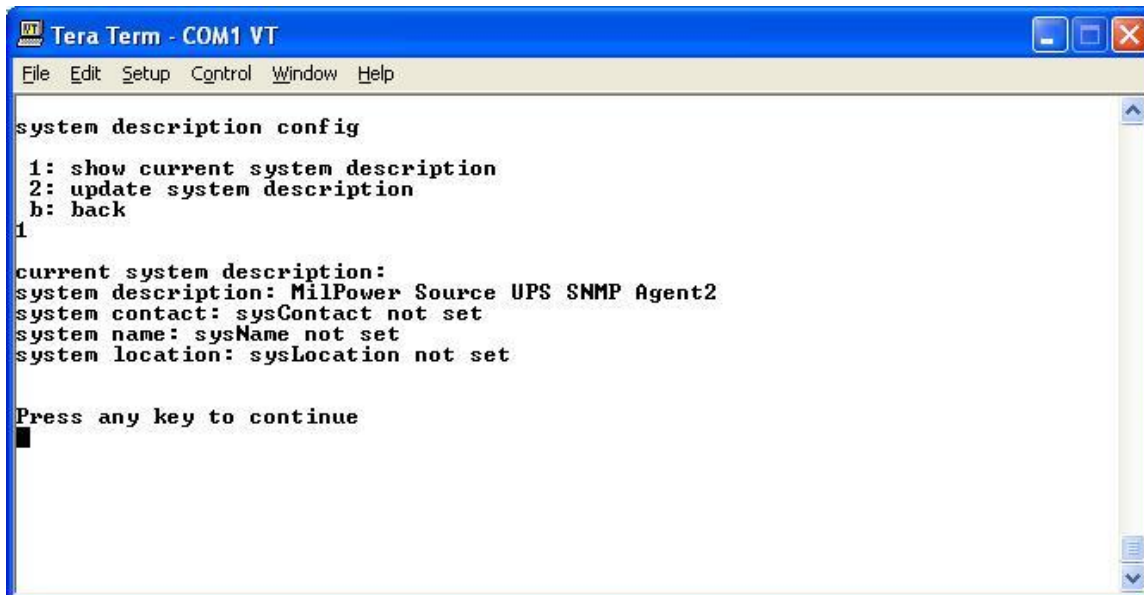
## 1.3. System description



```
Tera Term - COM1 VT
File Edit Setup Control Window Help

system description config
1: show current system description
2: update system description
b: back
```

### 1.3.1. Current system description

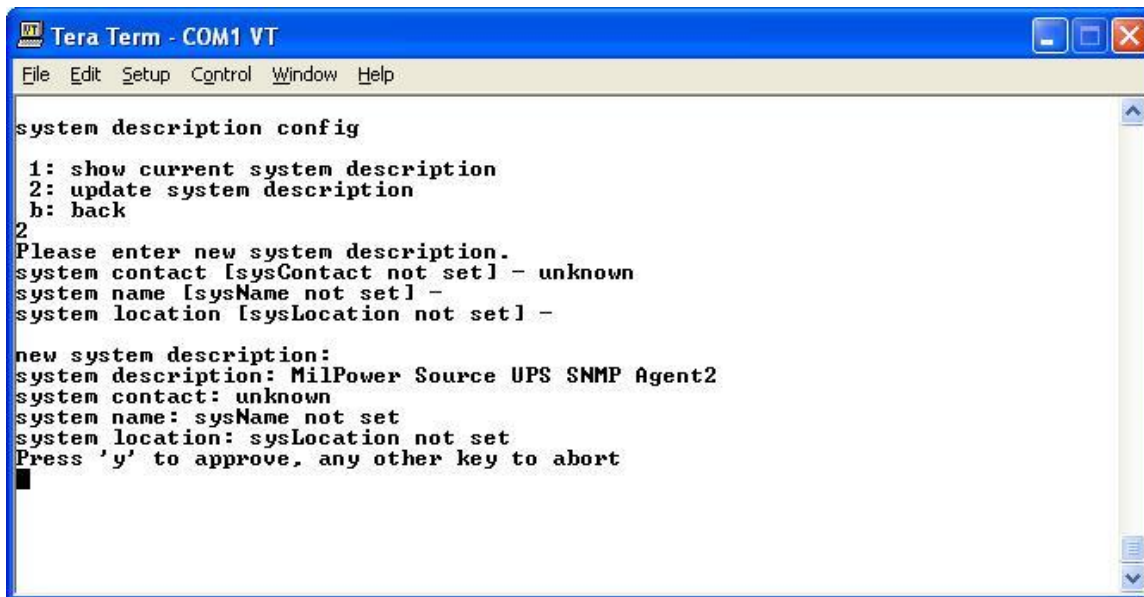


```
Tera Term - COM1 VT
File Edit Setup Control Window Help

system description config
1: show current system description
2: update system description
b: back
1
current system description:
system description: MilPower Source UPS SNMP Agent2
system contact: sysContact not set
system name: sysName not set
system location: sysLocation not set

Press any key to continue
█
```

### 1.3.2. System description update



```
MT Tera Term - COM1 VT
File Edit Setup Control Window Help

system description config

1: show current system description
2: update system description
b: back
2
Please enter new system description.
system contact [sysContact not set] - unknown
system name [sysName not set] -
system location [sysLocation not set] -

new system description:
system description: MilPower Source UPS SNMP Agent2
system contact: unknown
system name: sysName not set
system location: sysLocation not set
Press 'y' to approve, any other key to abort
█
```

### 1.4. System IP



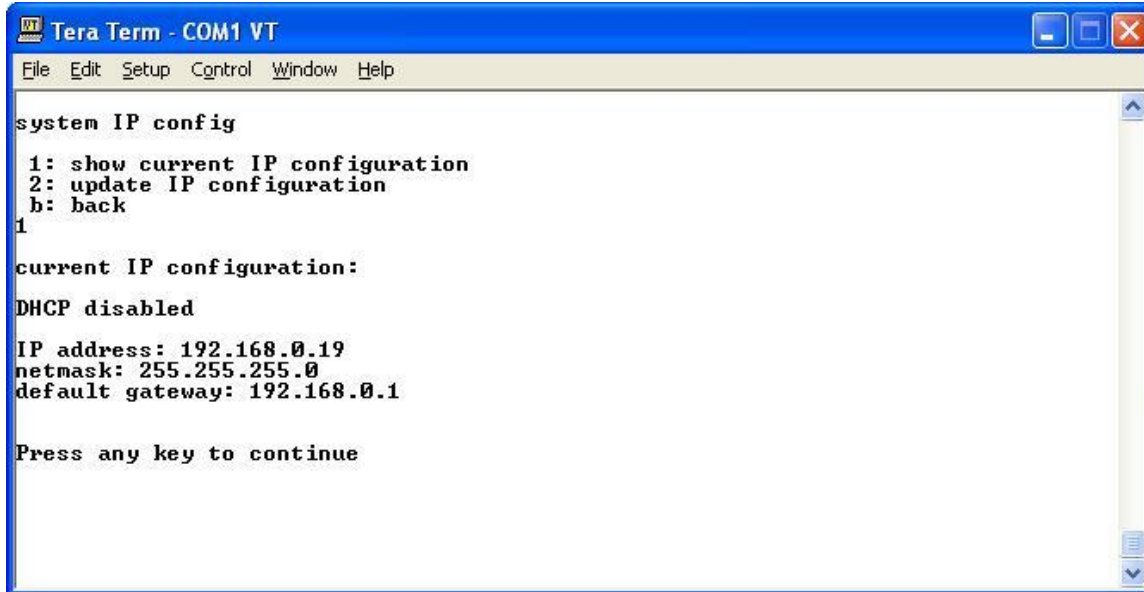
```
MT Tera Term - COM1 VT
File Edit Setup Control Window Help

system IP config

1: show current IP configuration
2: update IP configuration
b: back
```



### 1.4.1. Current system IP

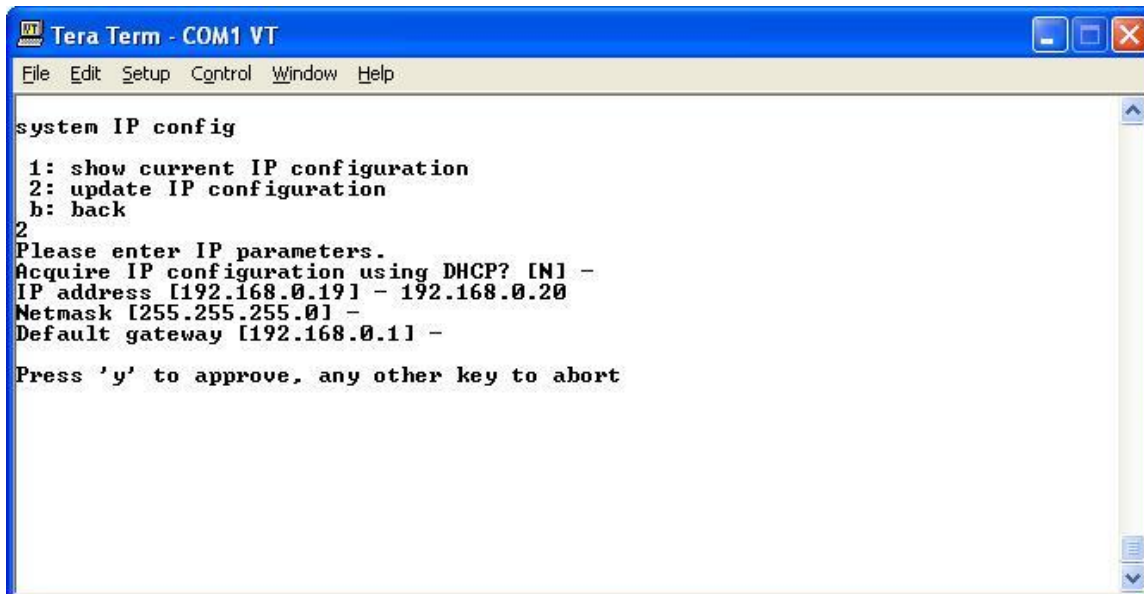


```
MT Tera Term - COM1 VT
File Edit Setup Control Window Help

system IP config
 1: show current IP configuration
 2: update IP configuration
 b: back
1
current IP configuration:
DHCP disabled
IP address: 192.168.0.19
netmask: 255.255.255.0
default gateway: 192.168.0.1

Press any key to continue
```

### 1.4.2. System IP update

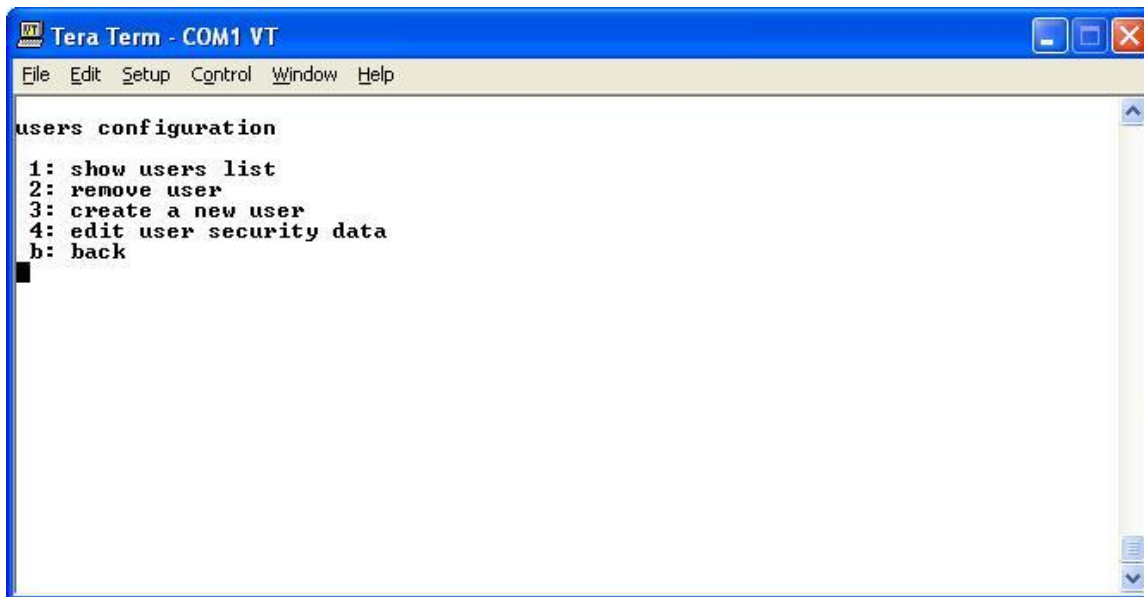


```
MT Tera Term - COM1 VT
File Edit Setup Control Window Help

system IP config
 1: show current IP configuration
 2: update IP configuration
 b: back
2
Please enter IP parameters.
Acquire IP configuration using DHCP? [N] -
IP address [192.168.0.19] - 192.168.0.20
Netmask [255.255.255.0] -
Default gateway [192.168.0.1] -

Press 'y' to approve, any other key to abort
```

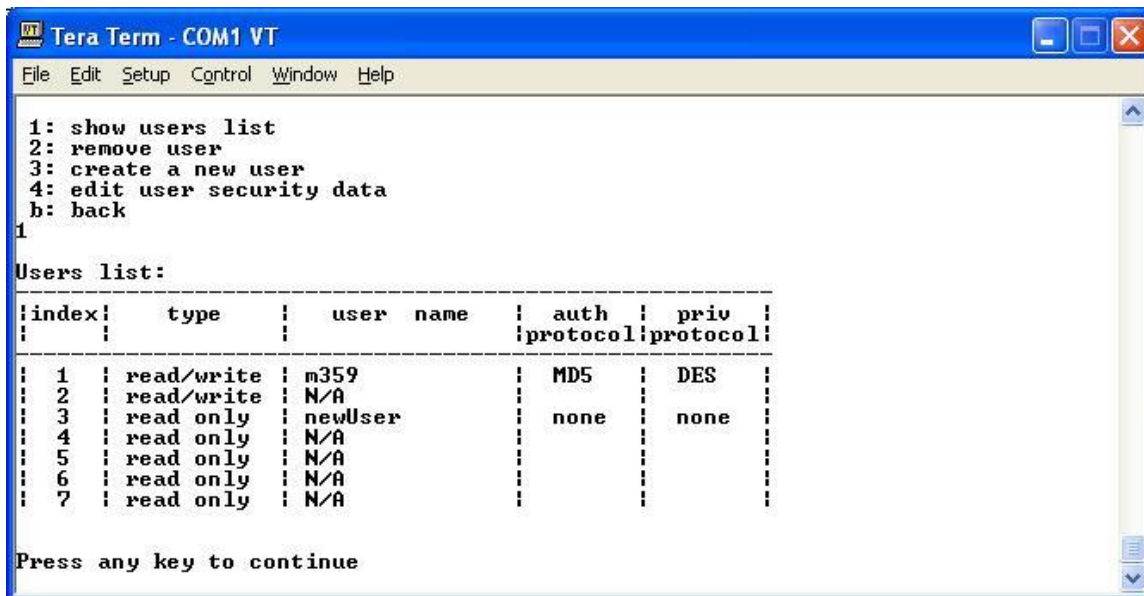
## 2. Users configuration:



```
MT Tera Term - COM1 VT
File Edit Setup Control Window Help

users configuration
1: show users list
2: remove user
3: create a new user
4: edit user security data
b: back
█
```

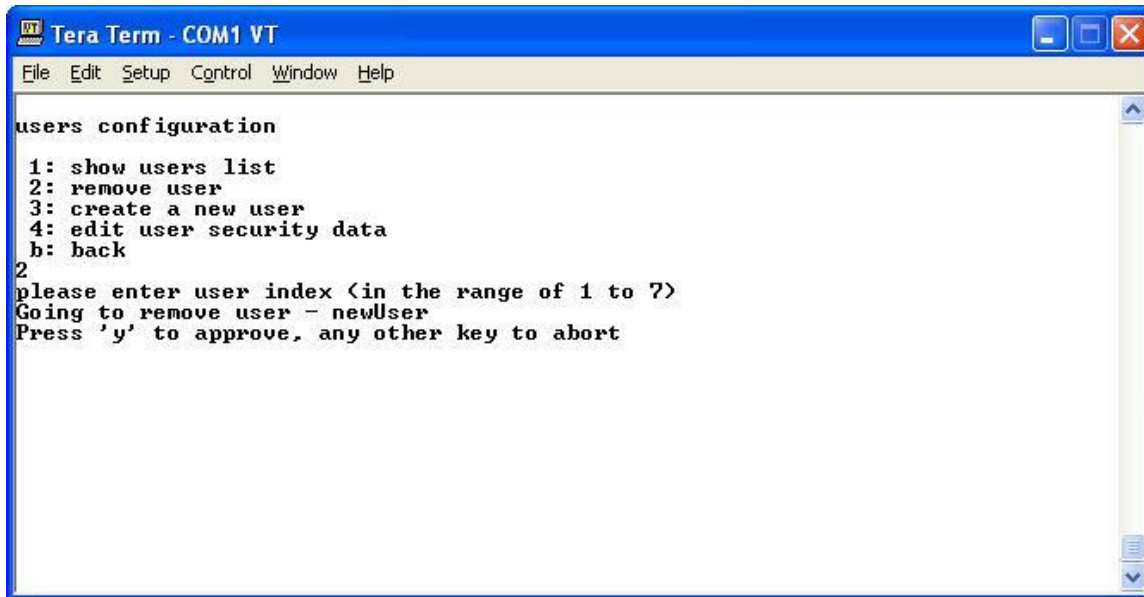
### 2.1. Users list



```
MT Tera Term - COM1 VT
File Edit Setup Control Window Help

1: show users list
2: remove user
3: create a new user
4: edit user security data
b: back
1
Users list:
-----
|index|   type   | user name | auth | priv |
|-----|-----|-----|-----|-----|
|  1  | read/write | m359      | MD5  | DES  |
|  2  | read/write | N/A      |      |      |
|  3  | read only  | newUser  | none | none |
|  4  | read only  | N/A      |      |      |
|  5  | read only  | N/A      |      |      |
|  6  | read only  | N/A      |      |      |
|  7  | read only  | N/A      |      |      |
-----
Press any key to continue
```

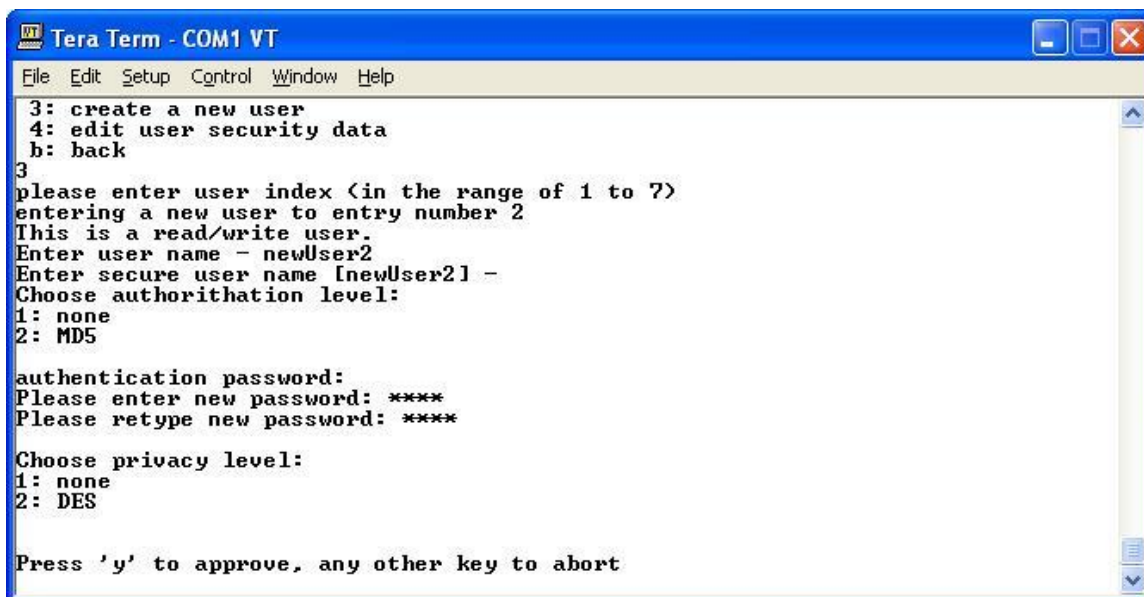
## 2.2. Remove user



```
Tera Term - COM1 VT
File Edit Setup Control Window Help

users configuration
1: show users list
2: remove user
3: create a new user
4: edit user security data
b: back
2
please enter user index (in the range of 1 to 7)
Going to remove user - newUser
Press 'y' to approve, any other key to abort
```

## 2.3. Create user

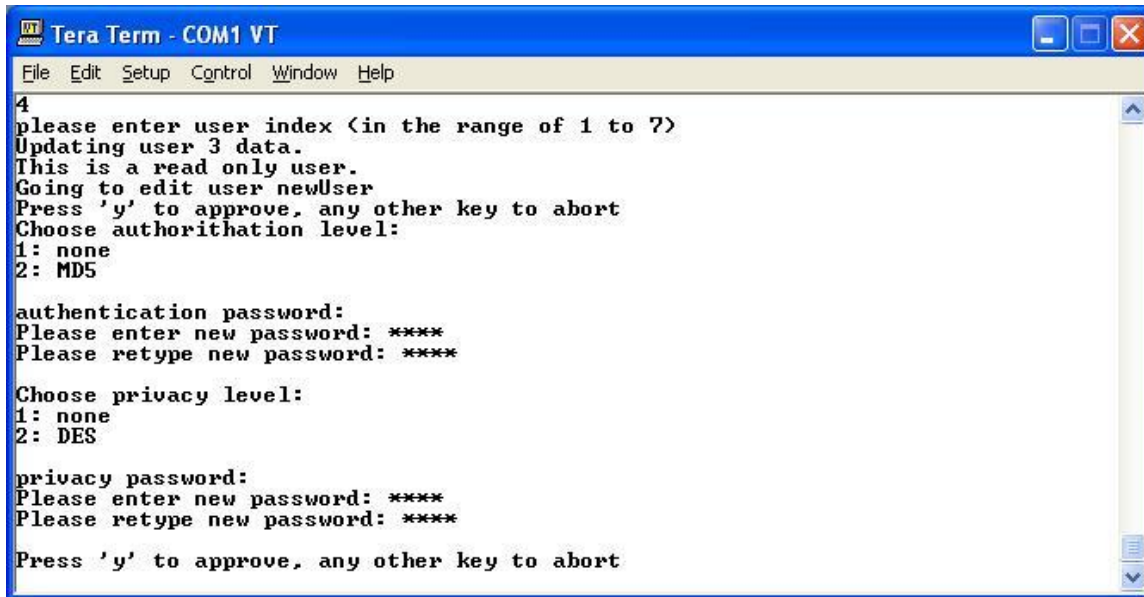


```
Tera Term - COM1 VT
File Edit Setup Control Window Help

3: create a new user
4: edit user security data
b: back
3
please enter user index (in the range of 1 to 7)
entering a new user to entry number 2
This is a read/write user.
Enter user name - newUser2
Enter secure user name [newUser2] -
Choose authorithation level:
1: none
2: MD5
authentication password:
Please enter new password: ****
Please retype new password: ****
Choose privacy level:
1: none
2: DES
Press 'y' to approve, any other key to abort
```

Note: The password should be at least 4 characters long, no spaces allowed

## 2.4. Update user



```
Tera Term - COM1 VT
File Edit Setup Control Window Help
4
please enter user index (in the range of 1 to 7)
Updating user 3 data.
This is a read only user.
Going to edit user newUser
Press 'y' to approve, any other key to abort
Choose authorithation level:
1: none
2: MD5

authentication password:
Please enter new password: ****
Please retype new password: ****

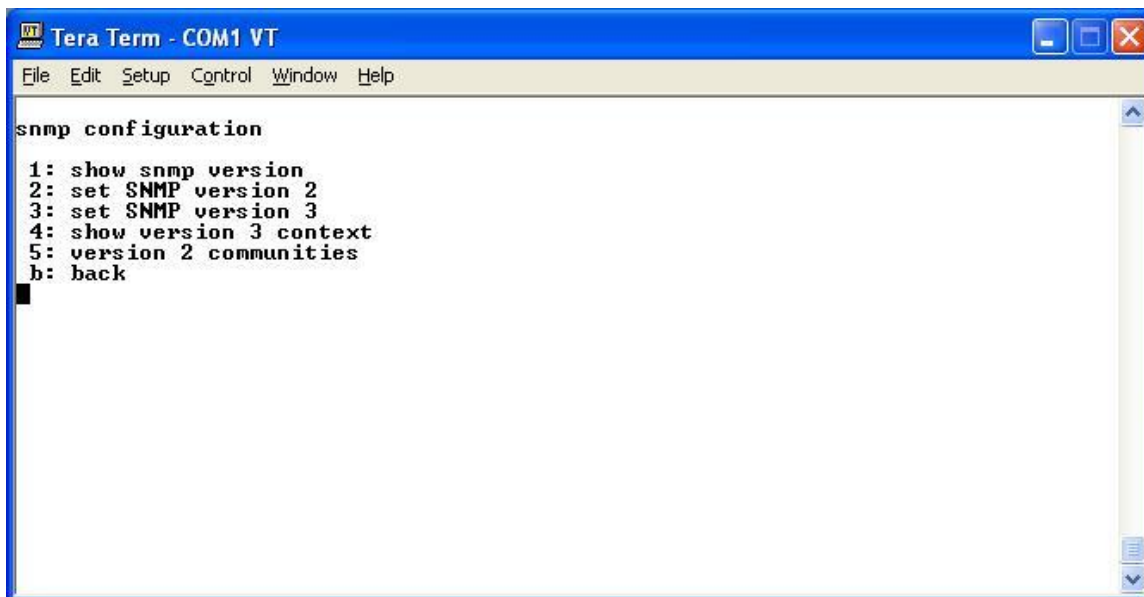
Choose privacy level:
1: none
2: DES

privacy password:
Please enter new password: ****
Please retype new password: ****

Press 'y' to approve, any other key to abort
```

Note: the password should be at least 4 characters long, no spaces allowed

## 3. SNMP configuration:



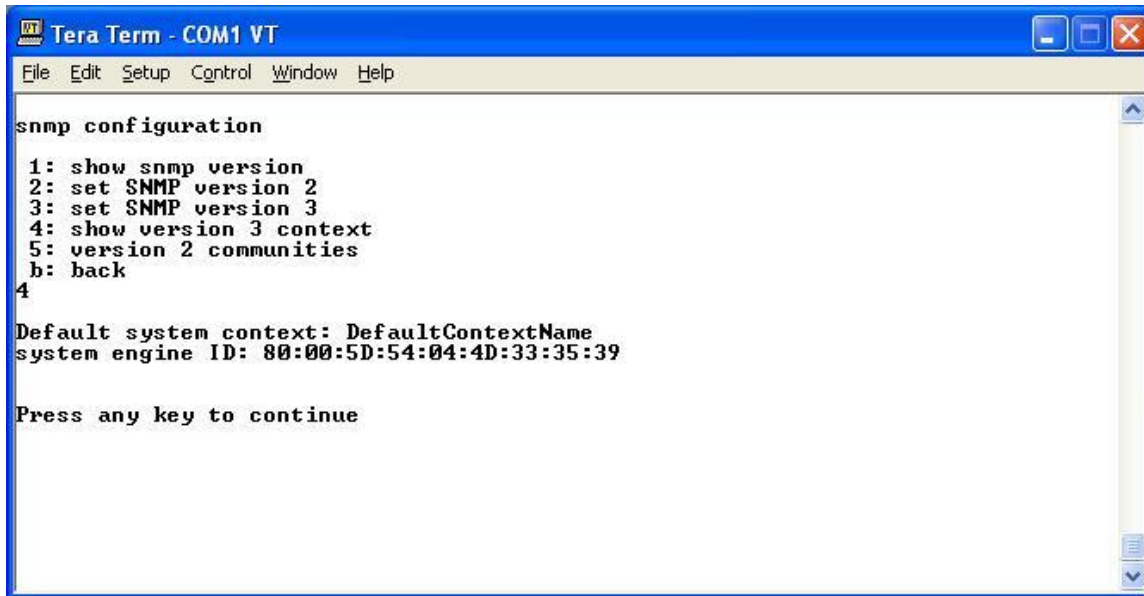
```
Tera Term - COM1 VT
File Edit Setup Control Window Help

snmp configuration
1: show snmp version
2: set SNMP version 2
3: set SNMP version 3
4: show version 3 context
5: version 2 communities
b: back
█
```

### SNMP configuration choices:

1. Prints agent current version
2. Changes Agent version to SNMP V2
3. Changes Agent version to
4. Show Version 3 context
5. Version 2 communities.

### 3.1. Show version 3 context (V3 only)




The screenshot shows a terminal window titled "Tera Term - COM1 VT" with a menu of SNMP configuration options. The user has selected option 4, which displays system context information.

```
Tera Term - COM1 VT
File Edit Setup Control Window Help

snmp configuration
1: show snmp version
2: set SNMP version 2
3: set SNMP version 3
4: show version 3 context
5: version 2 communities
b: back
4
Default system context: DefaultContextName
system engine ID: 80:00:5D:54:04:4D:33:35:39

Press any key to continue
```

### 3.2. version 2 communities (V2 only)



The screenshot shows a terminal window titled "Tera Term - COM1 VT" with a menu for SNMP V2 communities configuration. The user has selected option 1, which displays the current community descriptions.

```
Tera Term - COM1 VT
File Edit Setup Control Window Help

snmp V2 communities config
1: show current snmp communities description
2: update snmp communities
b: back
1
```

### 3.2.1. show SNMP v2 communities

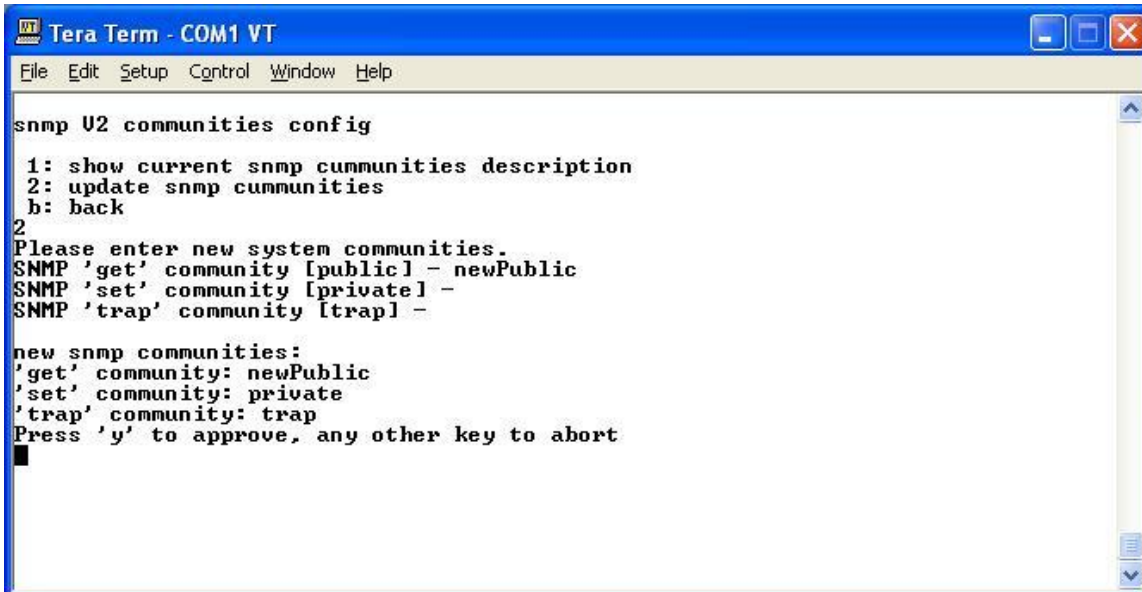


```
Tera Term - COM1 VT
File Edit Setup Control Window Help

snmp U2 communities config
 1: show current snmp communities description
 2: update snmp communities
 b: back
1
current snmp communities:
'get' community: public
'set' community: private
'trap' community: trap

Press any key to continue
█
```

### 3.2.2. update SNMP v2 communities

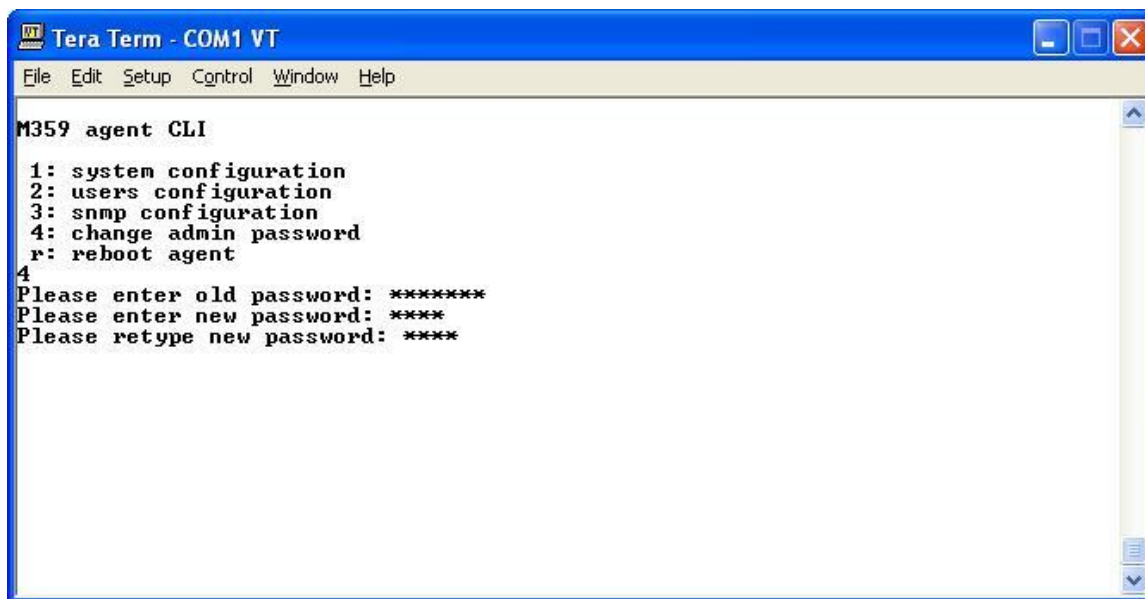


```
Tera Term - COM1 VT
File Edit Setup Control Window Help

snmp U2 communities config
 1: show current snmp communities description
 2: update snmp communities
 b: back
2
Please enter new system communities.
SNMP 'get' community [public] - newPublic
SNMP 'set' community [private] -
SNMP 'trap' community [trap] -

new snmp communities:
'get' community: newPublic
'set' community: private
'trap' community: trap
Press 'y' to approve, any other key to abort
█
```

## 4. Change admin password



```

M359 agent CLI

1: system configuration
2: users configuration
3: snmp configuration
4: change admin password
r: reboot agent
4
Please enter old password: *****
Please enter new password: ****
Please retype new password: ****

```

Note: the password should be at least 4 characters long, no spaces allowed