

UPS SNMP CLI

User's Manual

Milpower Source UPS CLI interface

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Chapter 1. Introduction

a. Scope

This manual is applicable to M359-X-X-1 and M362-X-X-1 UPSs (for M359-1 the CLI is supported only by units of Rev E or higher).

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.

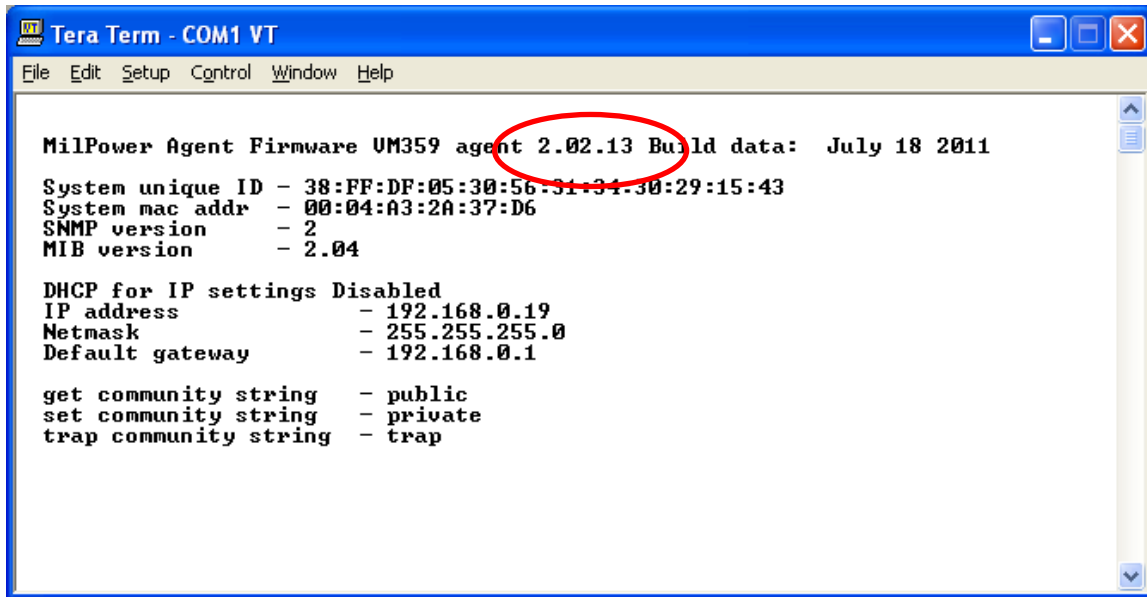
Chapter 2. Installation and Configuration Management

a. Required Hardware and Software

1. PC computer with serial VT100/VT220/VT320 terminal (such as freeware TeraTerm app)
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.



6. Note the firmware version on top of the screen.
For M359 only: If the version is below 2.02.13 then the agent firmware should be upgraded to allow CLI interface. For the upgrade procedure refer 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. For M359-1 only: verify that the UPS is revision E or higher.
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 CLI, all Ethernet communications will cease until agent reboot. This does not influence the UPS controller, so 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.

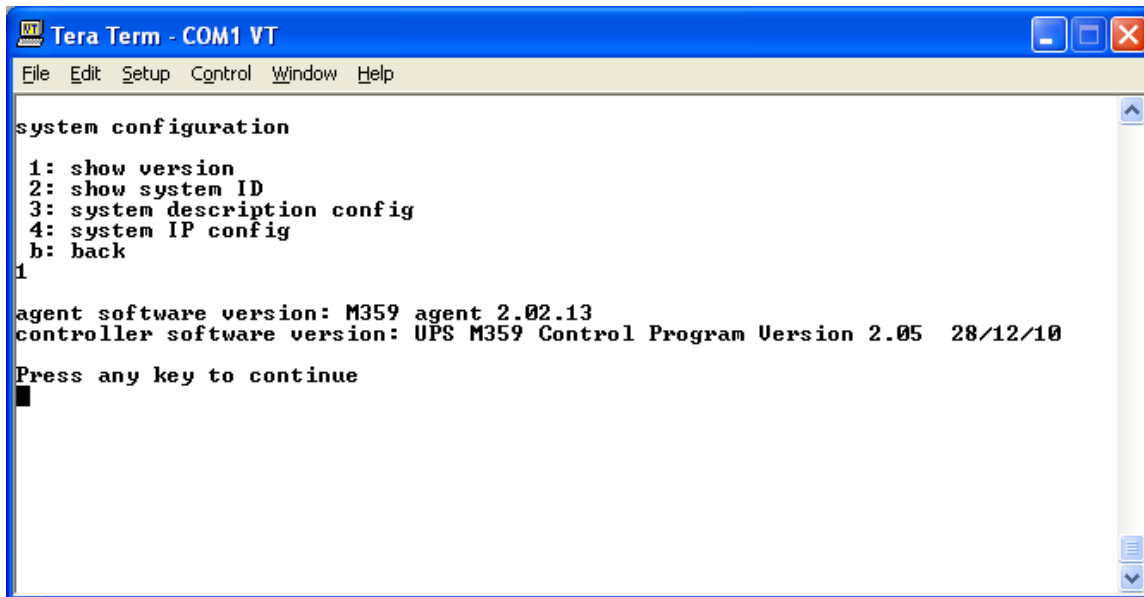
Main menu:



1. System configuration:



1.1. System version

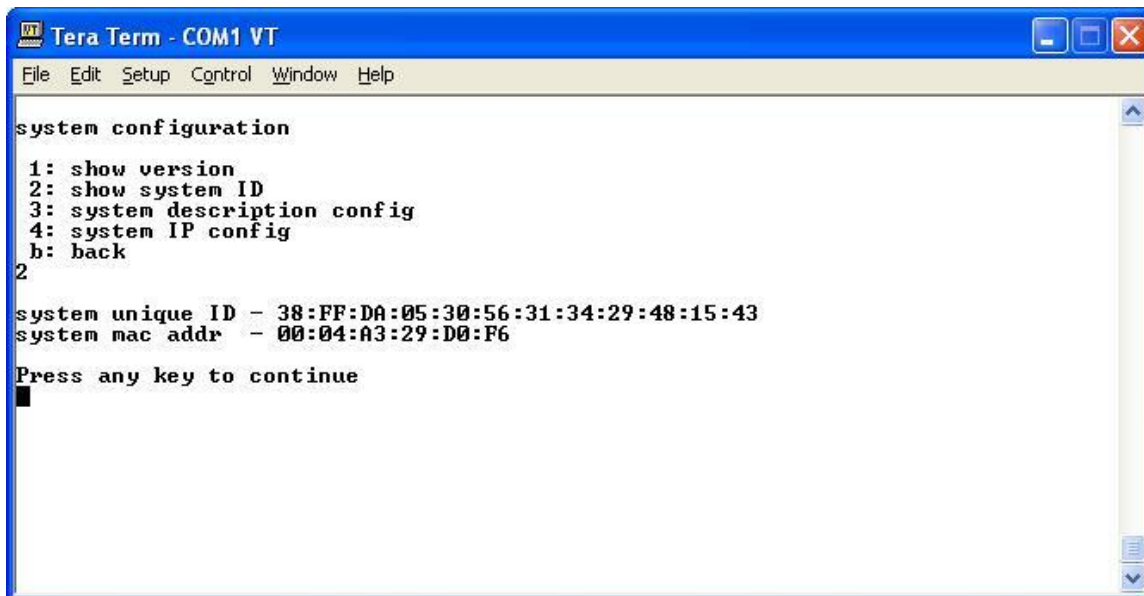


```
Tera Term - COM1 VT
File Edit Setup Control Window Help

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
```

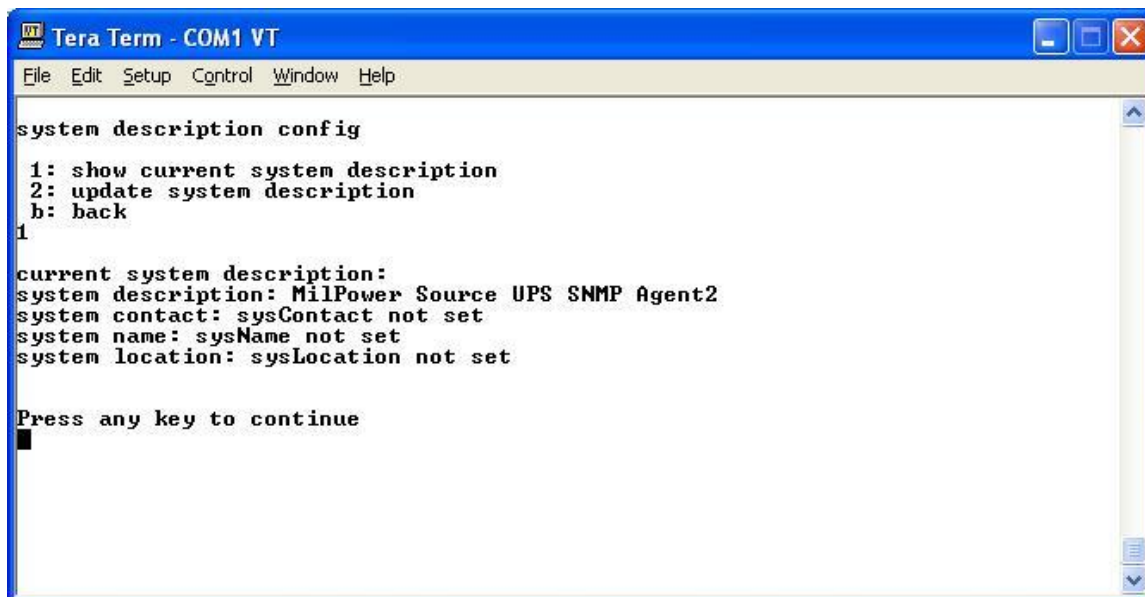
1.3. System description



The screenshot shows a Tera Term window titled "Tera Term - COM1 VT". The menu bar includes File, Edit, Setup, Control, Window, and Help. The main text area displays the following prompt and options:

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

1.3.1. Current system description

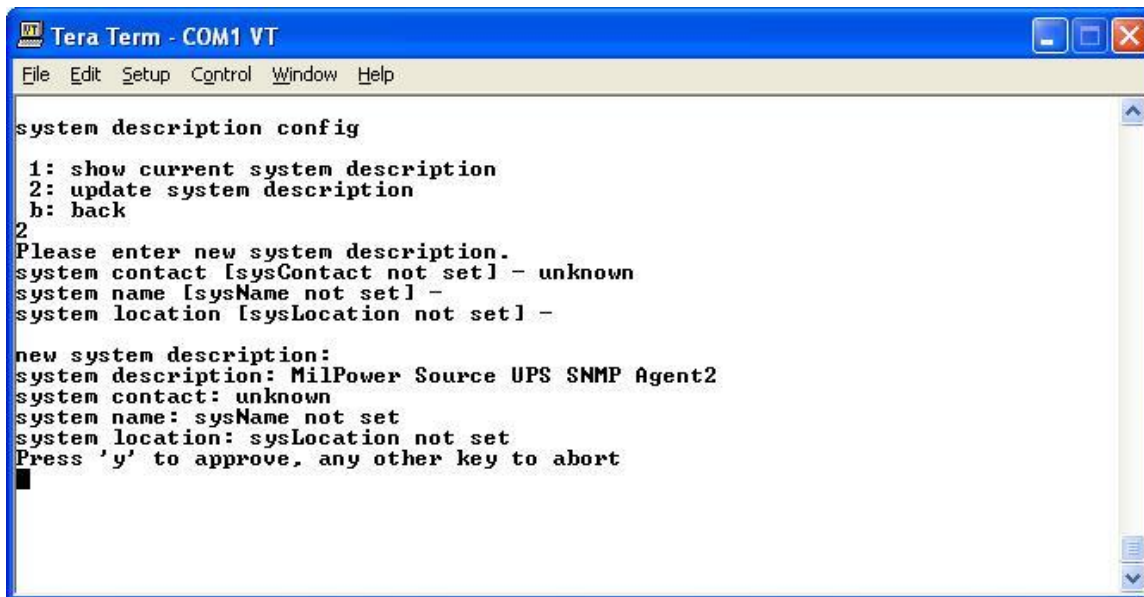


The screenshot shows the same Tera Term window. The user has selected option '1', and the output is as follows:

```
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



The screenshot shows a Tera Term window titled "Tera Term - COM1 VT". The menu bar includes File, Edit, Setup, Control, Window, and Help. The main text area displays the "system description config" menu with options: 1: show current system description, 2: update system description, and b: back. Option 2 is selected, leading to a prompt: "Please enter new system description." Below this, the current configuration is shown: "system contact [sysContact not set] - unknown", "system name [sysName not set] -", and "system location [sysLocation not set] -". A new system description is entered: "new system description: MilPower Source UPS SNMP Agent2". The updated configuration is then displayed: "system description: MilPower Source UPS SNMP Agent2", "system contact: unknown", "system name: sysName not set", and "system location: sysLocation not set". The prompt "Press 'y' to approve, any other key to abort" is shown at the bottom.

```
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
```

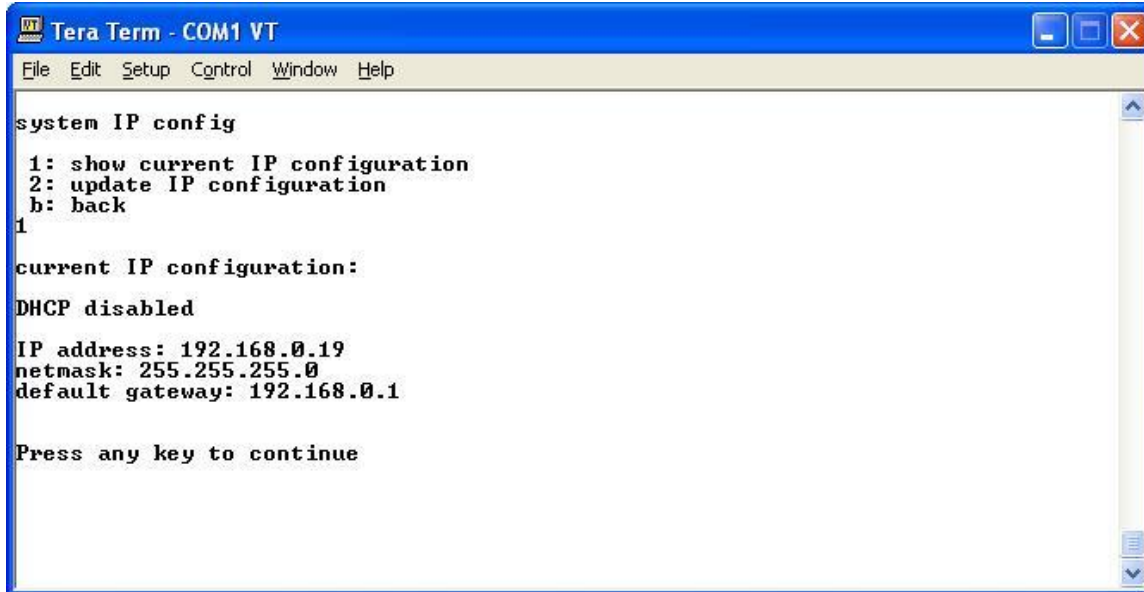
1.4. System IP



The screenshot shows a Tera Term window titled "Tera Term - COM1 VT". The menu bar includes File, Edit, Setup, Control, Window, and Help. The main text area displays the "system IP config" menu with options: 1: show current IP configuration, 2: update IP configuration, and b: back.

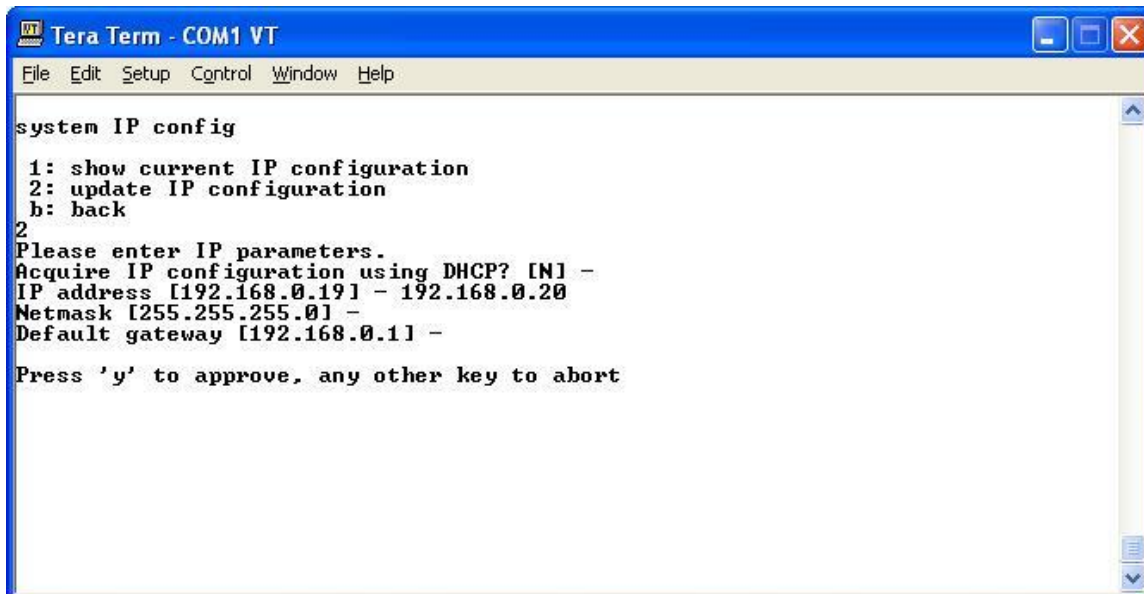
```
system IP config
1: show current IP configuration
2: update IP configuration
b: back
```

1.4.1. Current system IP



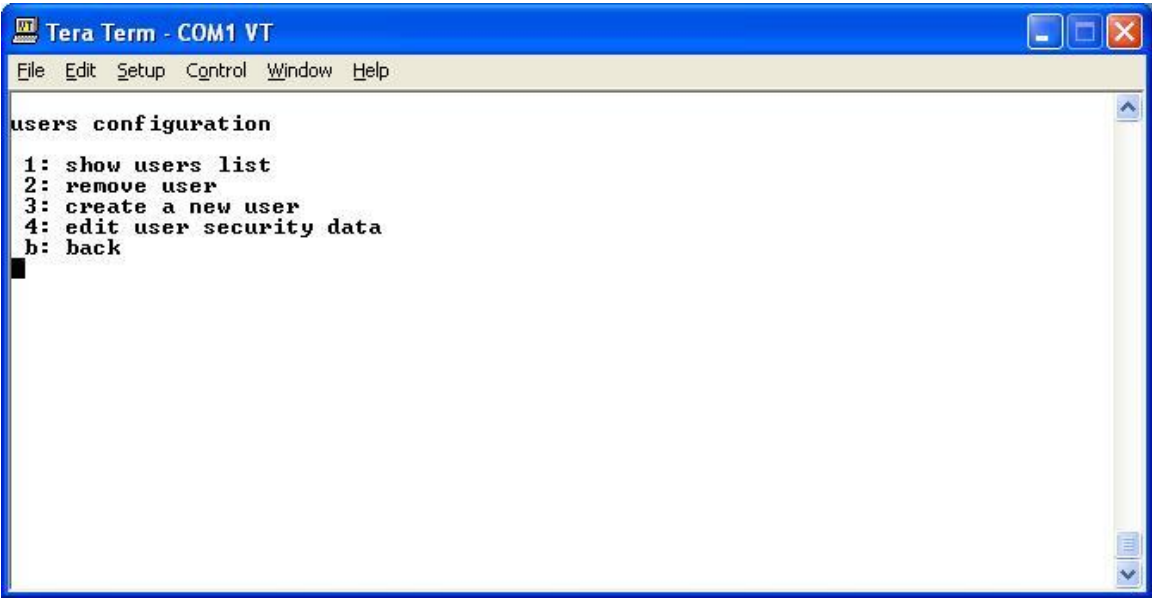
```
system IP config
1: show current IP configuration
2: update IP configuration
b: back
1
current IP configuration:
DHCP disabled
IP address: 192.168.0.19
netmask: 255.255.255.0
default gateway: 192.168.0.1
Press any key to continue
```

1.4.2. System IP update



```
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
```

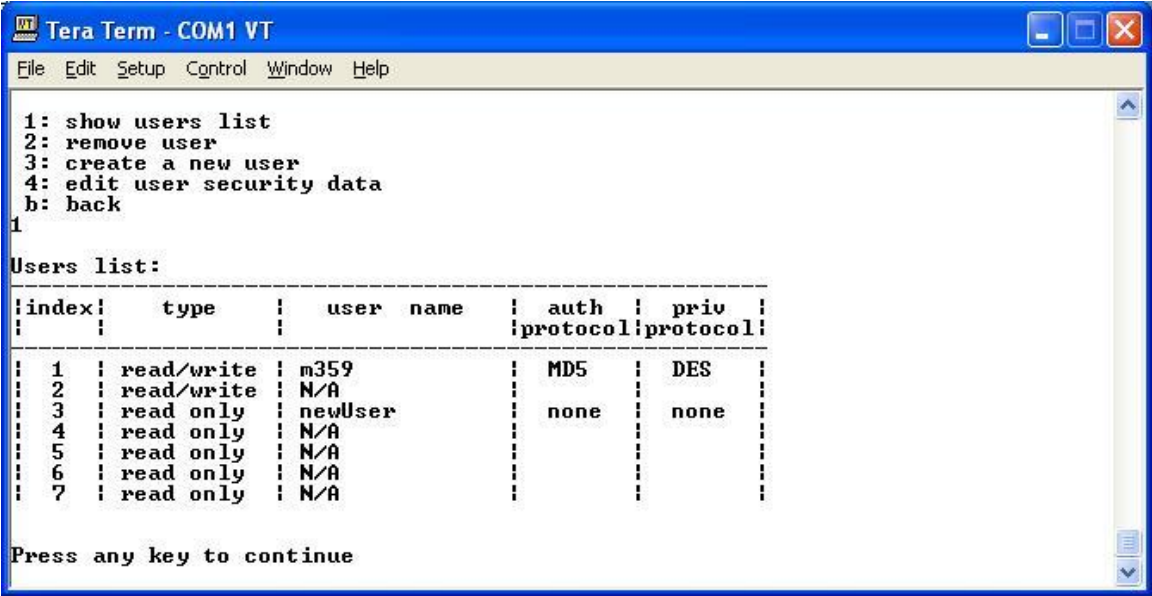
2. Users configuration:



The screenshot shows a Tera Term window titled "Tera Term - COM1 VT". The menu bar includes File, Edit, Setup, Control, Window, and Help. The main text area displays the "users configuration" menu with the following options:

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

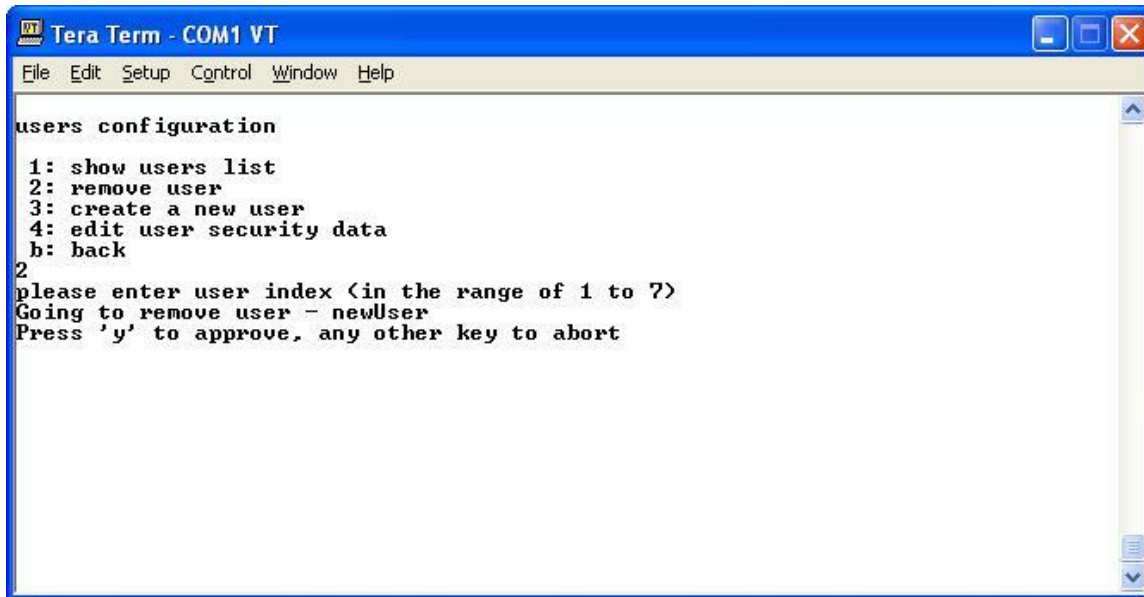
2.1. Users list



The screenshot shows the same Tera Term window, but now option 1 has been selected. The text "1" is entered, and the "Users list:" table is displayed. The table has five columns: index, type, user name, auth protocol, and priv protocol. Below the table, the text "Press any key to continue" is shown.

```
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
```

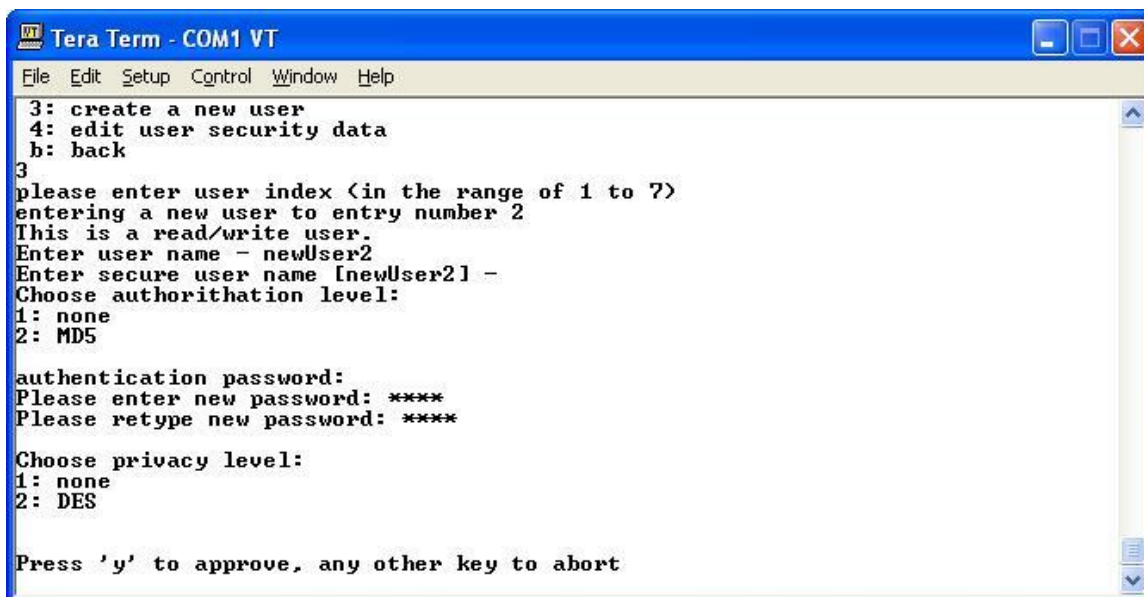
2.2. Remove user



```
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 ?)
Going to remove user - newUser
Press 'y' to approve, any other key to abort
```

2.3. Create user

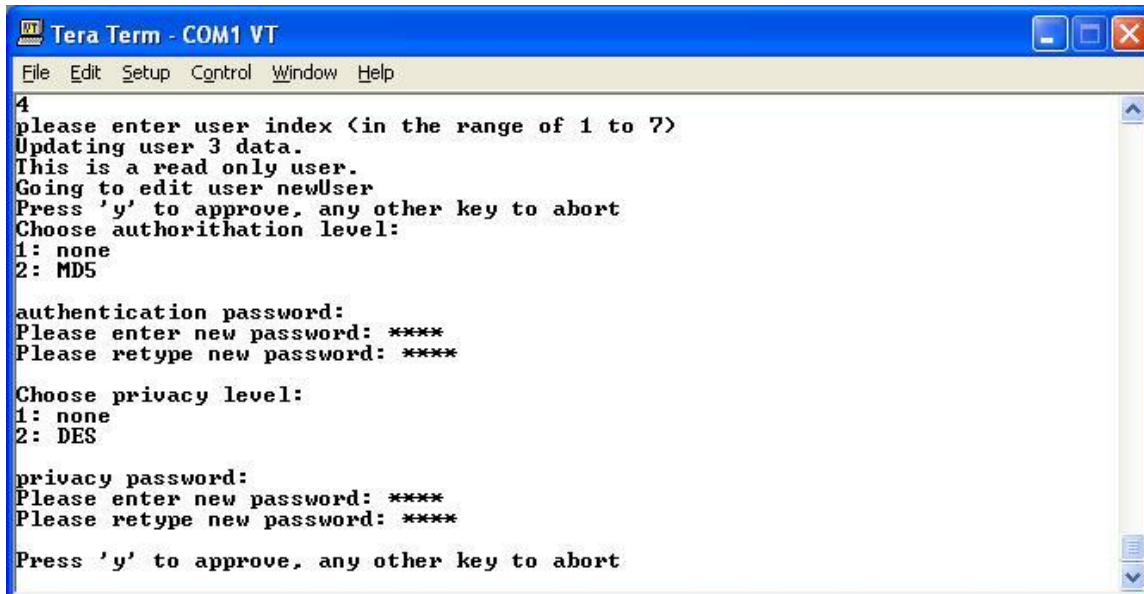


```
Tera Term - COM1 VT
File Edit Setup Control Window Help

3: create a new user
4: edit user security data
b: back
3
please enter user index (in the range of 1 to ?)
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

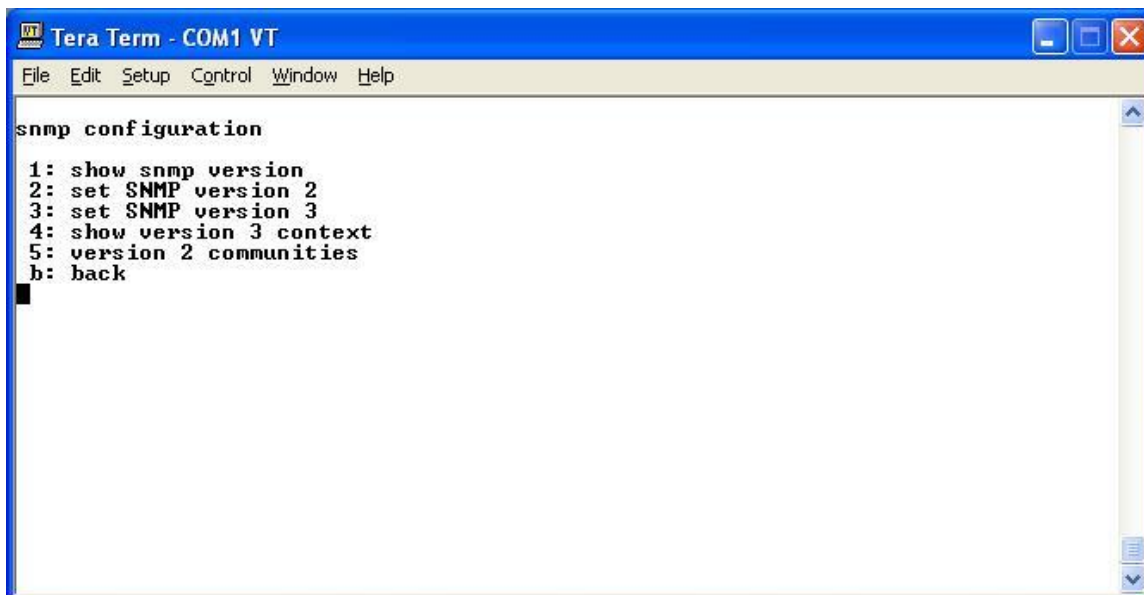
2.4. Update user

A screenshot of a Tera Term window titled "Tera Term - COM1 VT". The window has a menu bar with "File", "Edit", "Setup", "Control", "Window", and "Help". The main text area displays the following prompts and user input: "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: ****", and "Press 'y' to approve, any other key to abort".

```
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 charecters long, no spaces allowed

3. SNMP configuration:

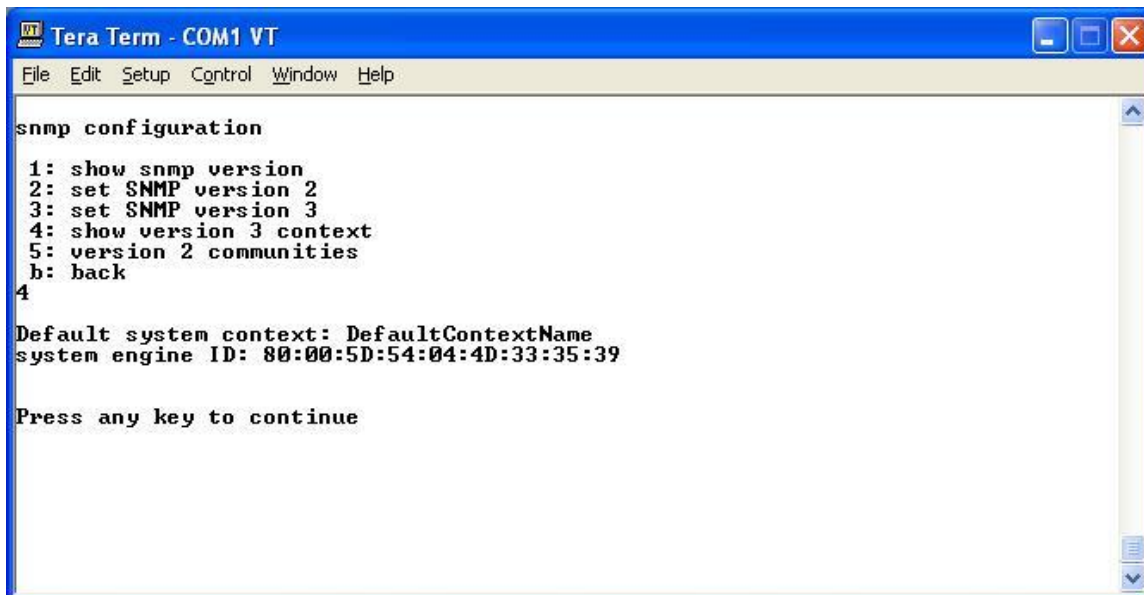
A screenshot of a Tera Term window titled "Tera Term - COM1 VT". The window has a menu bar with "File", "Edit", "Setup", "Control", "Window", and "Help". The main text area displays the following menu: "snmp configuration", "1: show snmp version", "2: set SNMP version 2", "3: set SNMP version 3", "4: show version 3 context", "5: version 2 communities", and "b: back".

```
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
```

SMNP configuration choices:

1. Prints agent current version
2. Changes Agent version to SNMP V2
3. Changes Agent version to SNMP V3
4. Show Version 3 context
5. Version 2 communities.

3.1. Show version 3 context (V3 only)



The screenshot shows a Tera Term window titled "Tera Term - COM1 VT" with a menu bar (File, Edit, Setup, Control, Window, Help). The main text area displays the "snmp configuration" menu with the following options:

```
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
```

The option "4" has been selected, and the output shows:

```
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 Tera Term window titled "Tera Term - COM1 VT" with a menu bar (File, Edit, Setup, Control, Window, Help). The main text area displays the "snmp V2 communities config" menu with the following options:

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

The option "b" has been selected, and the output shows:

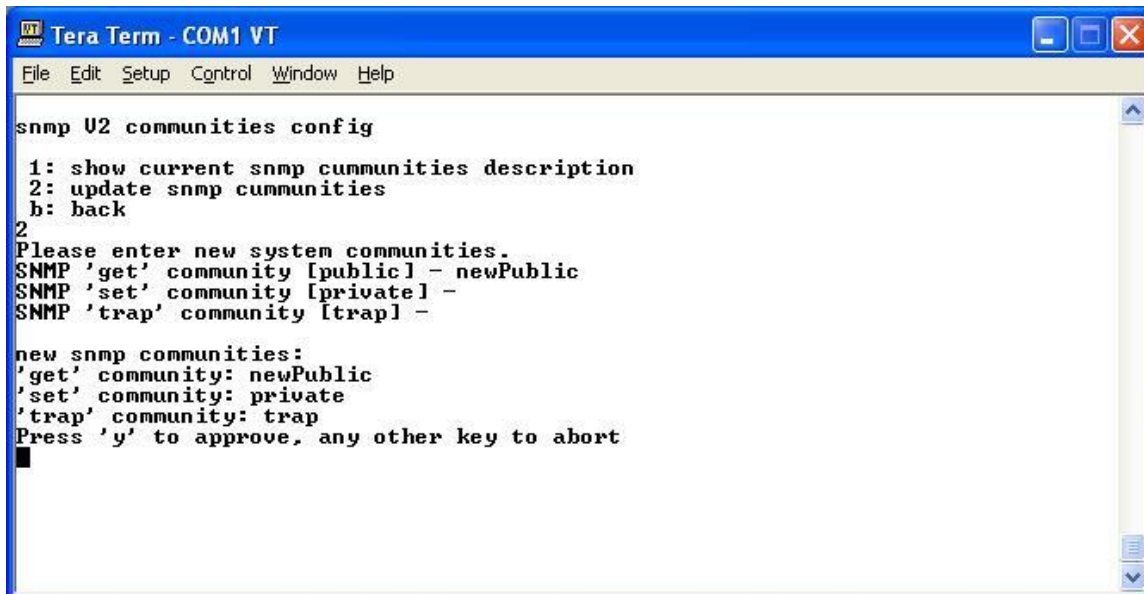
3.2.1. show SNMP v2 communities



```
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
current snmp communities:
'get' community: public
'set' community: private
'trap' community: trap
Press any key to continue
█
```

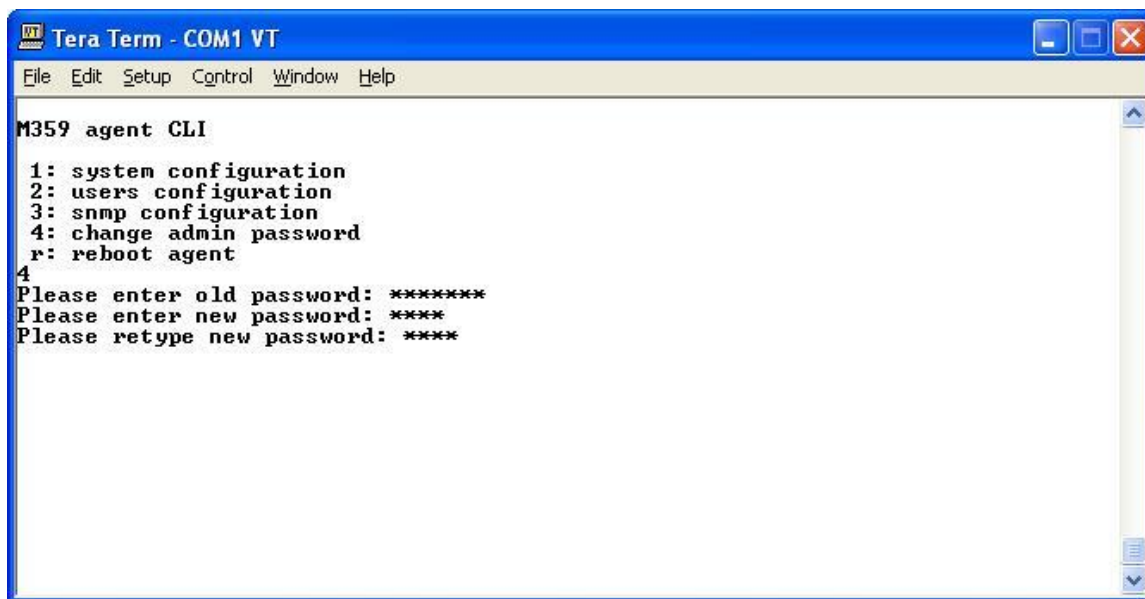
3.2.2. update SNMP v2 communities



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

snmp V2 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