



MILPOWER UPS SNMP CLI Simple Network Management Protocol Modules User Manual

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MILPOWER

MILPOWER UPS SNMP CLI Simple Network Management Protocol Modules

Specifications

- Model: M359-X-X-1 and M362-X-X-1 UPSs
- Interface: Command Line Interface (CLI)
- Connection: RS232
- Supported Software: VT100 terminal

Product Usage Instructions

Introduction

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).

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.

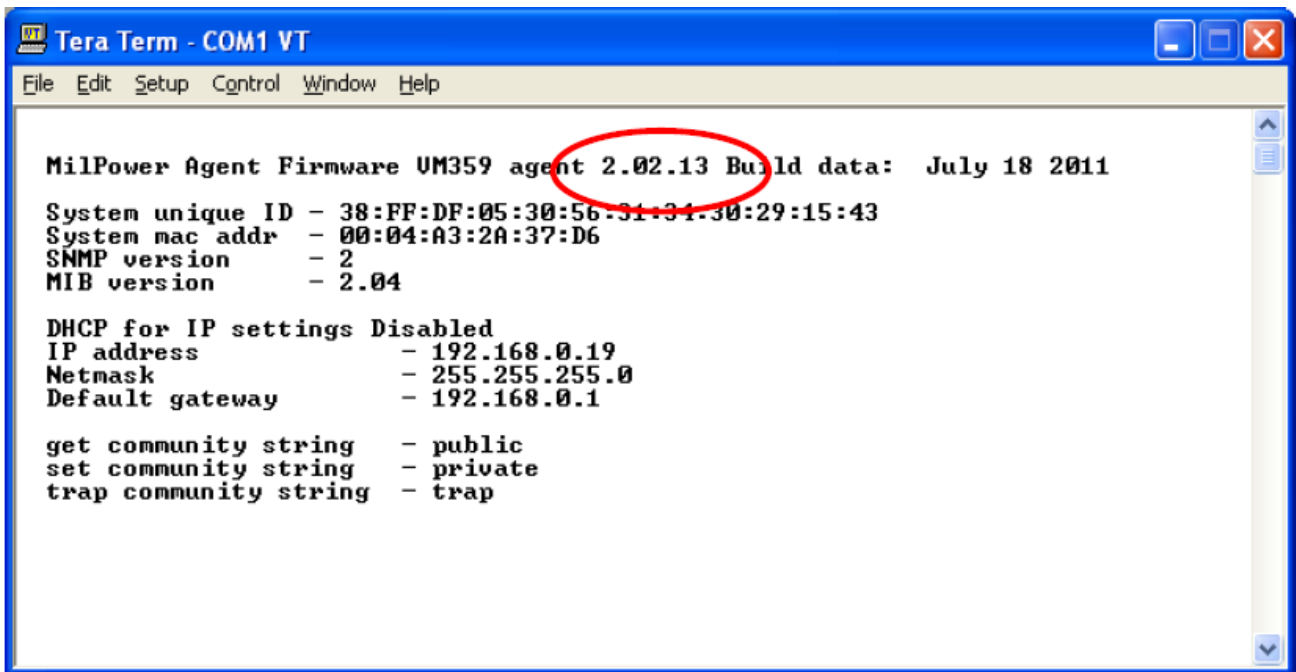
Installation and Configuration Management

Required Hardware and Software

1. PC computer with serial VT100/VT220/VT320 terminal (such as freeware TeraTerm app)
2. DB9 straight through cable.

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.



The screenshot shows 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 display area shows the following text:

```
MilPower Agent Firmware UM359 agent 2.02.13 Build data: July 18 2011
System unique ID - 38:FF:DF:05:30:56-31-31-30:29:15:43
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
```

The version number "2.02.13" in the first line is circled in red.

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:
 - Is the UPS connected to the PC with a pin-to-pin (not crossover) RS232 cable?
 - Is it connected to the right COM port?
 - Is the UPS turned ON?
 - For M359-1 only: verify that the UPS is revision E or higher.
8. Type 'console ' (with single space) followed by admin password (default 'web pass').
9. If the password is correct, then the CLI main menu will be displayed on screen as described in next chapter.

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



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

M359 agent CLI

1: system configuration
2: users configuration
3: snmp configuration
4: change admin password
r: reboot agent
```

System configuration:

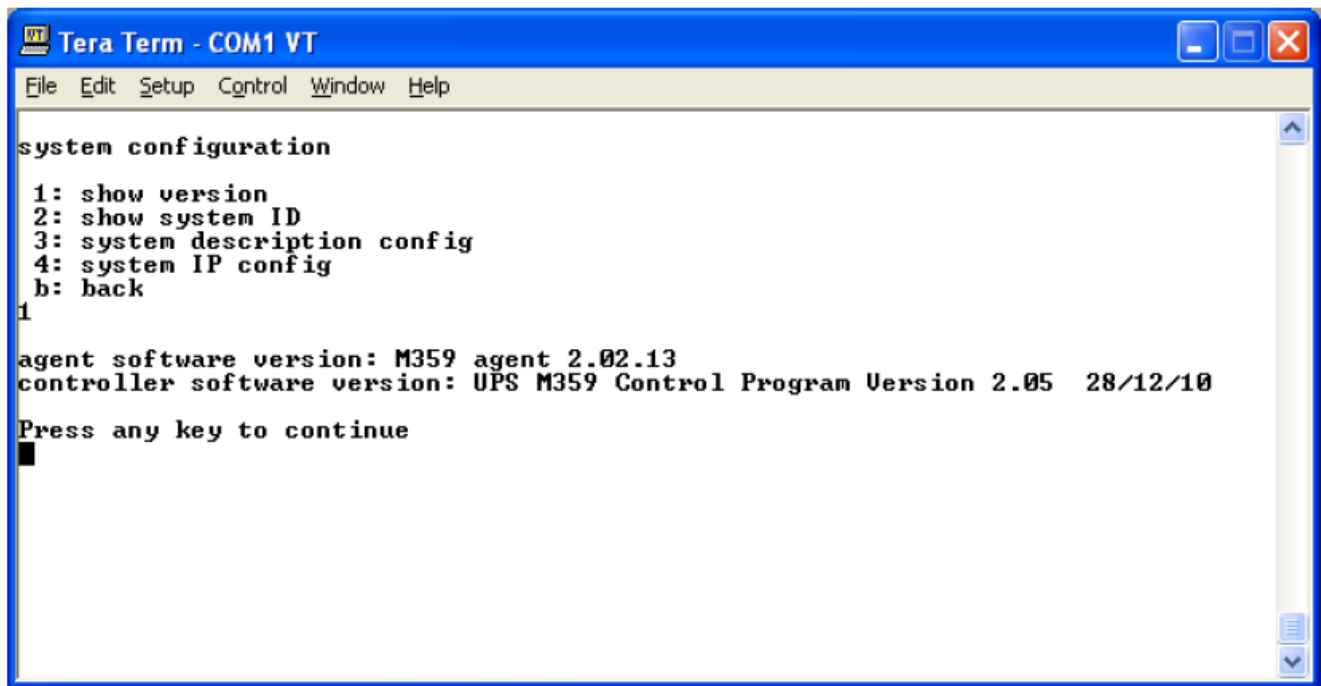


```
Tera Term - COM1 VT
File Edit Setup Control Window Help

system configuration

1: show version
2: show system ID
3: system description config
4: system IP config
b: back
```

System version

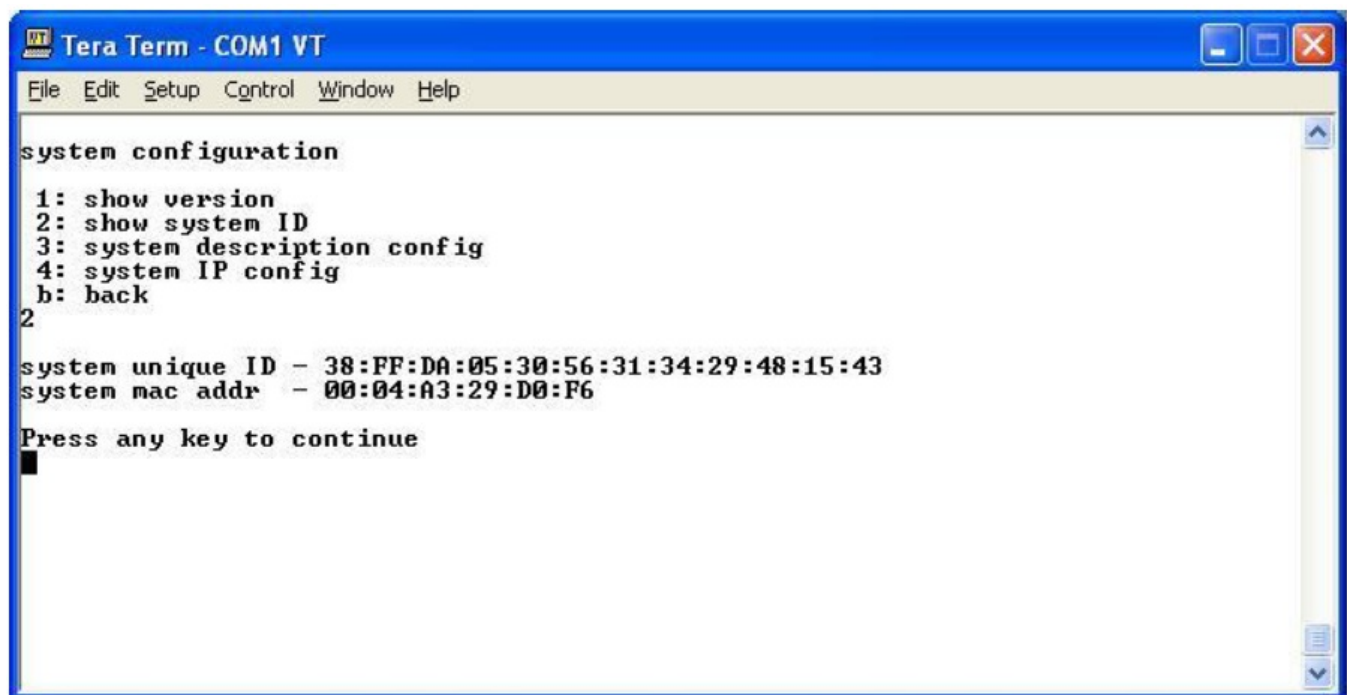


The screenshot shows a Tera Term window titled "Tera Term - COM1 VT". The menu bar includes File, Edit, Setup, Control, Window, and Help. The main text area displays a "system configuration" menu with the following options: 1: show version, 2: show system ID, 3: system description config, 4: system IP config, and b: back. The number "1" has been entered, and the output shows the agent software version as M359 agent 2.02.13 and the controller software version as UPS M359 Control Program Version 2.05, dated 28/12/10. A prompt "Press any key to continue" is shown with a cursor.

```
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
█
```

System ID

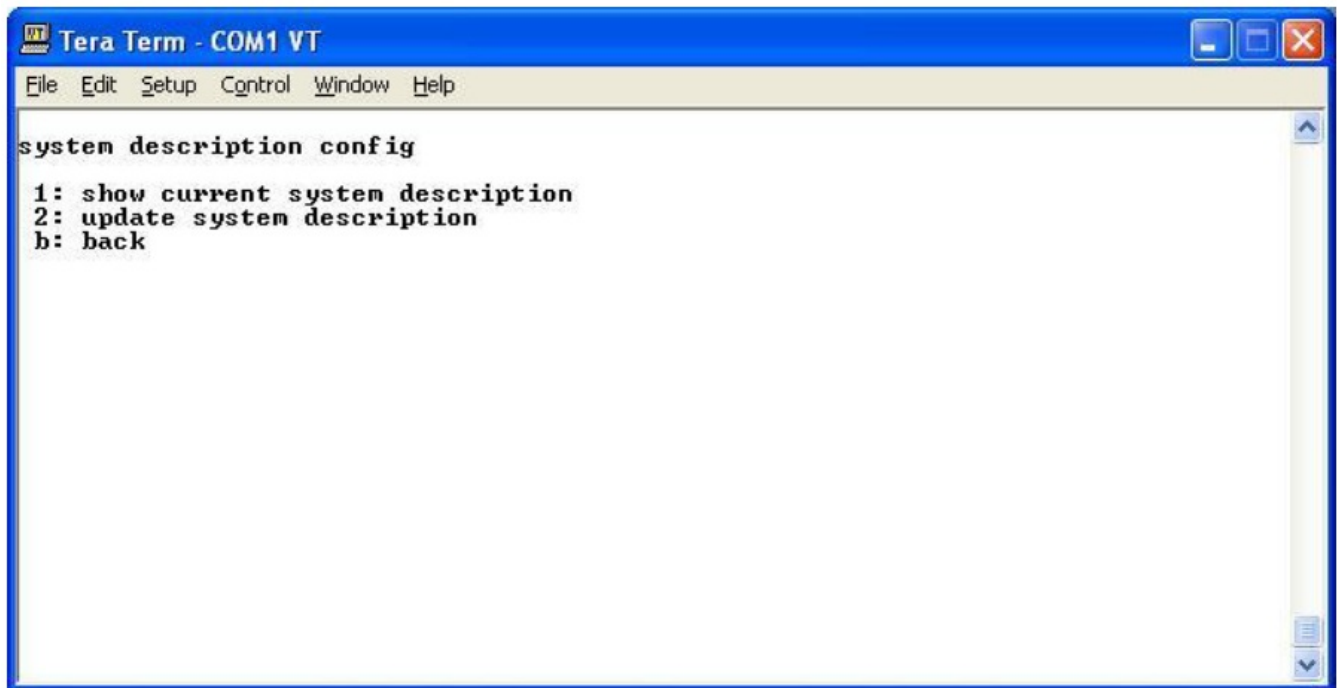


The screenshot shows the same Tera Term window, but now option "2" has been selected. The output displays the system unique ID as 38:FF:DA:05:30:56:31:34:29:48:15:43 and the system mac addr as 00:04:A3:29:D0:F6. The "Press any key to continue" prompt is again shown with a cursor.

```
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
█
```

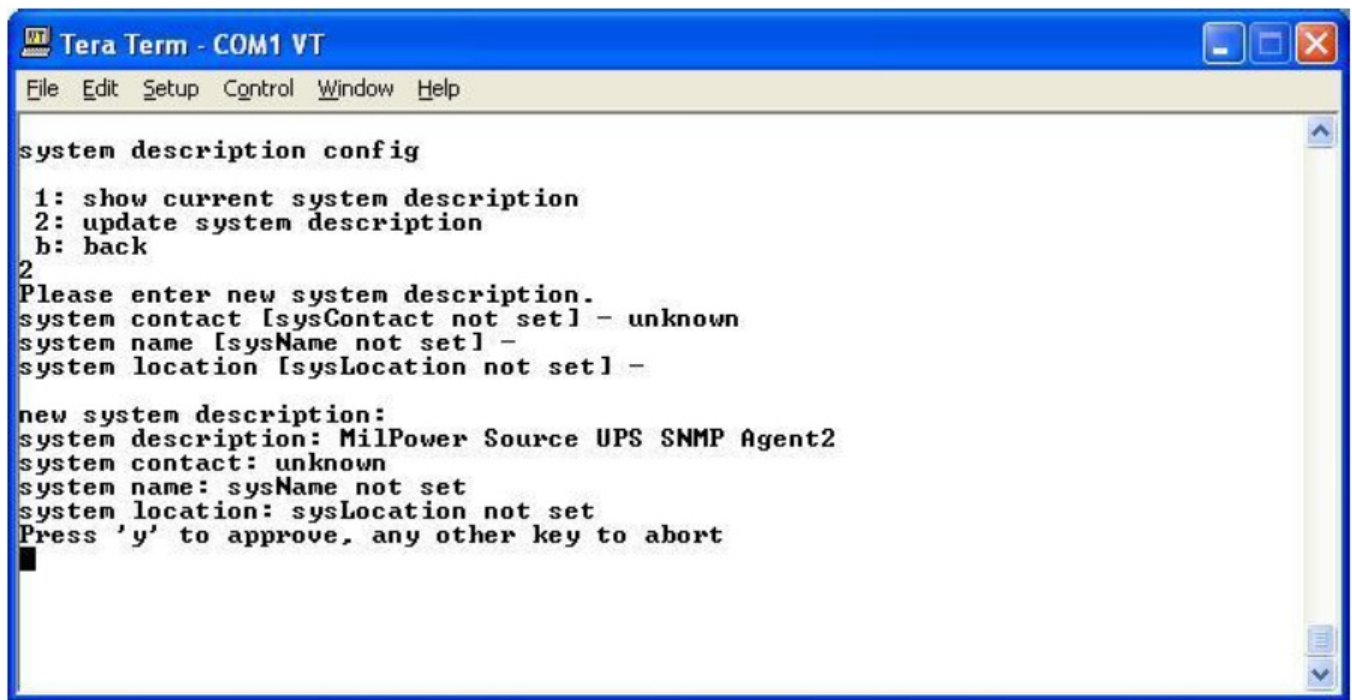
System description



Current system description



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 a command-line interface for system configuration. It starts with "system description config" followed by a numbered list: "1: show current system description", "2: update system description", and "b: back". The user has entered "2". The prompt "Please enter new system description." is shown, followed by three lines of configuration data: "system contact [sysContact not set] - unknown", "system name [sysName not set] -", and "system location [sysLocation not set] -". Below this, the "new system description:" is shown with the following values: "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 at the bottom, followed by a cursor.

```
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
█
```

System IP

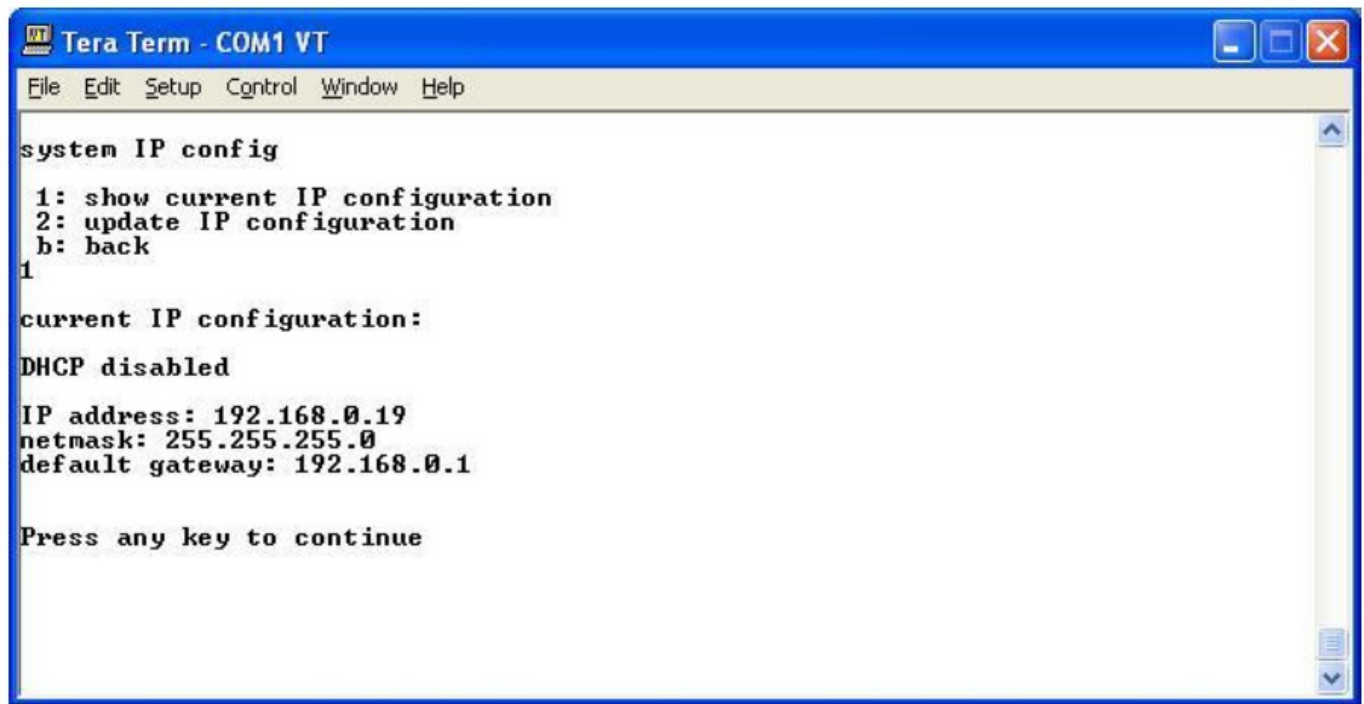


The screenshot shows a Tera Term window titled "Tera Term - COM1 VT". The menu bar includes File, Edit, Setup, Control, Window, and Help. The main text area displays a command-line interface for system IP configuration. It starts with "system IP config" followed by a numbered list: "1: show current IP configuration", "2: update IP configuration", and "b: back".

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

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

Current system IP

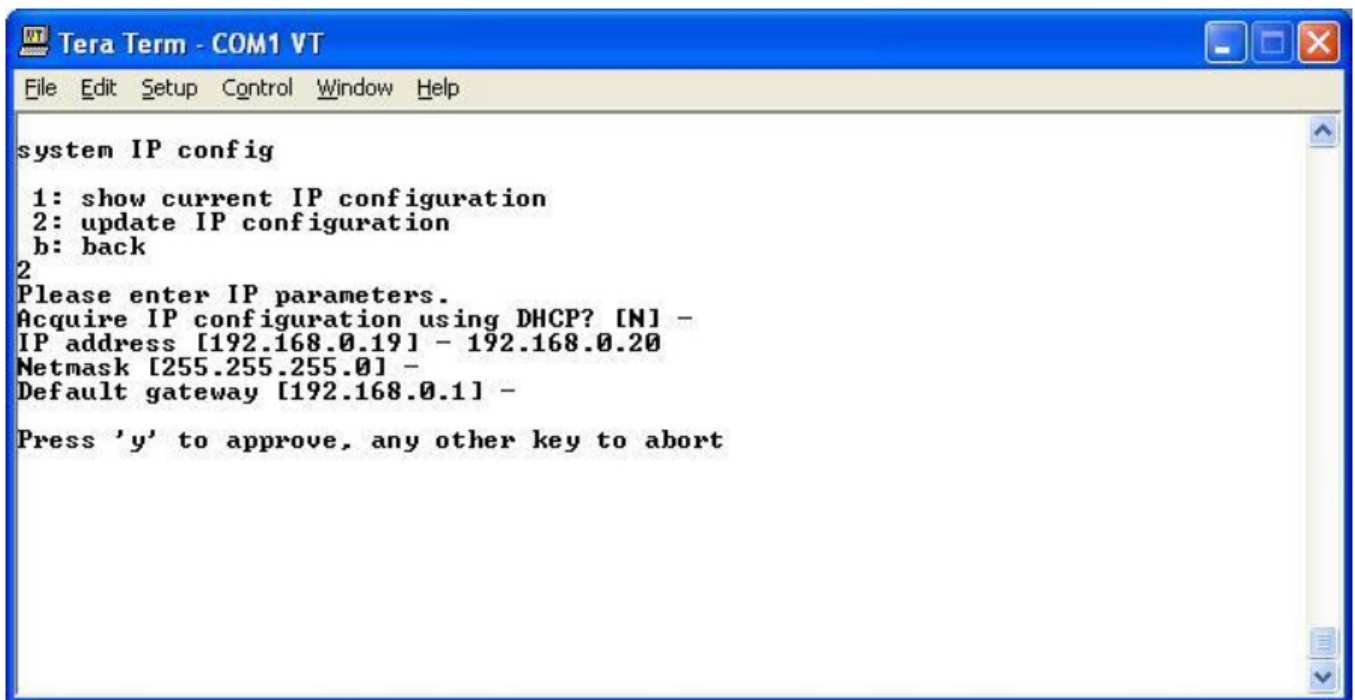


The screenshot shows a Tera Term window titled "Tera Term - COM1 VT". The menu bar includes File, Edit, Setup, Control, Window, and Help. The main text area displays the "system IP config" menu with options: "1: show current IP configuration", "2: update IP configuration", and "b: back". The character "1" has been entered, leading to the "current IP configuration:" section. It shows "DHCP disabled", "IP address: 192.168.0.19", "netmask: 255.255.255.0", and "default gateway: 192.168.0.1". At the bottom, it says "Press any key to continue".

```
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
```

System IP update



The screenshot shows the same Tera Term window. The "system IP config" menu is displayed, and the character "2" has been entered to select "update IP configuration". The prompt "Please enter IP parameters." is shown, followed by "Acquire IP configuration using DHCP? [N] -". Below this, the current settings are listed with brackets indicating they can be changed: "IP address [192.168.0.19] - 192.168.0.20", "Netmask [255.255.255.0] -", and "Default gateway [192.168.0.1] -". The prompt "Press 'y' to approve, any other key to abort" is at the bottom.

```
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
```

Users configuration


```
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
```

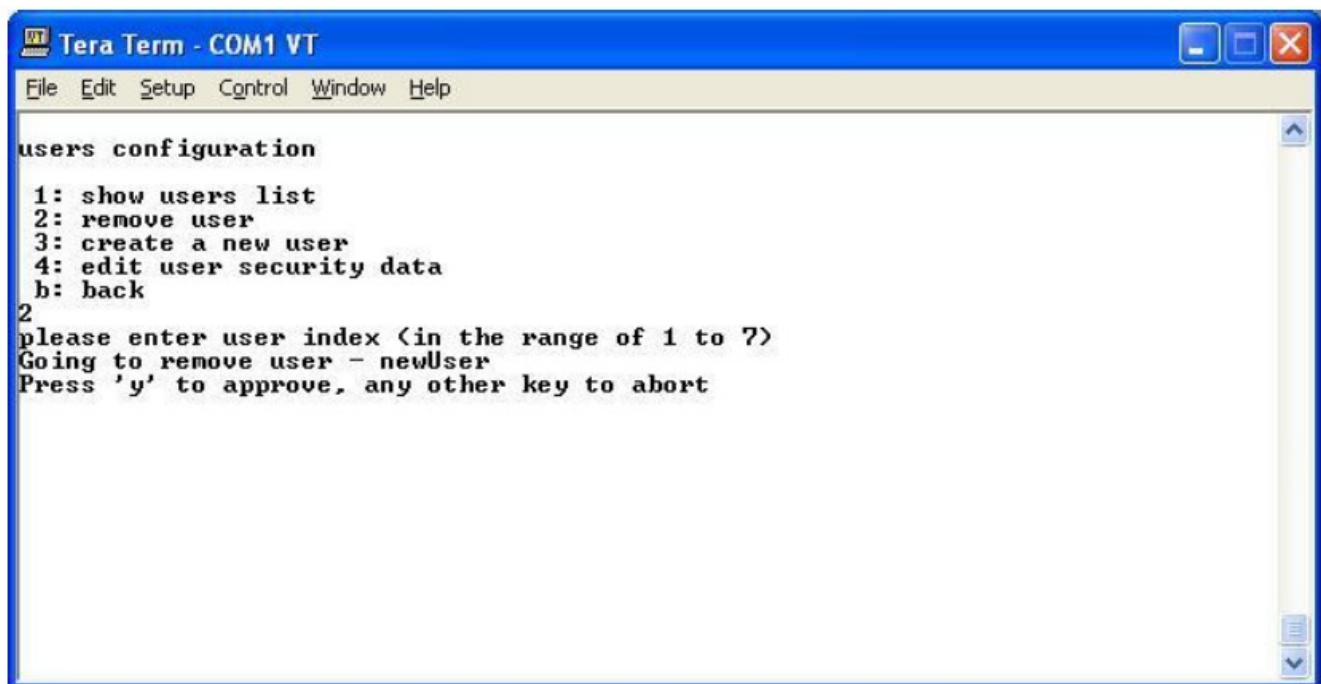
Users list

```
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
```

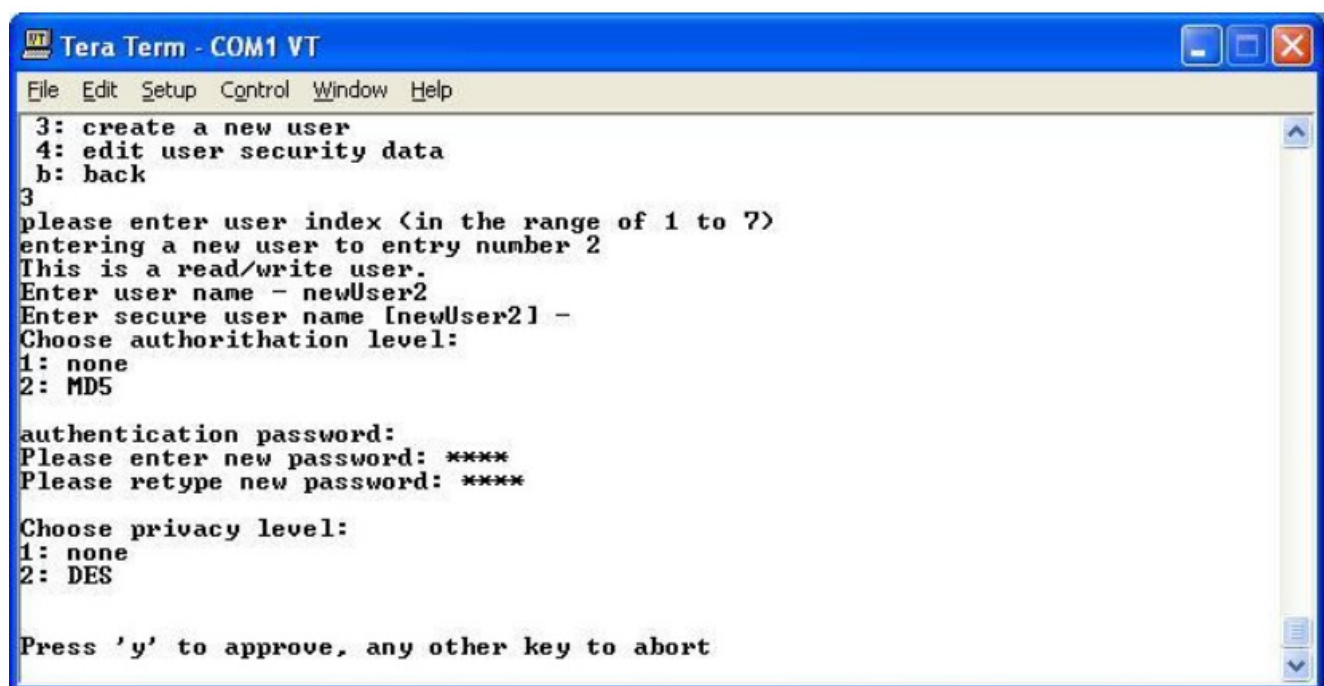
Remove user



```
VT 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
```

Create user



```
VT 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

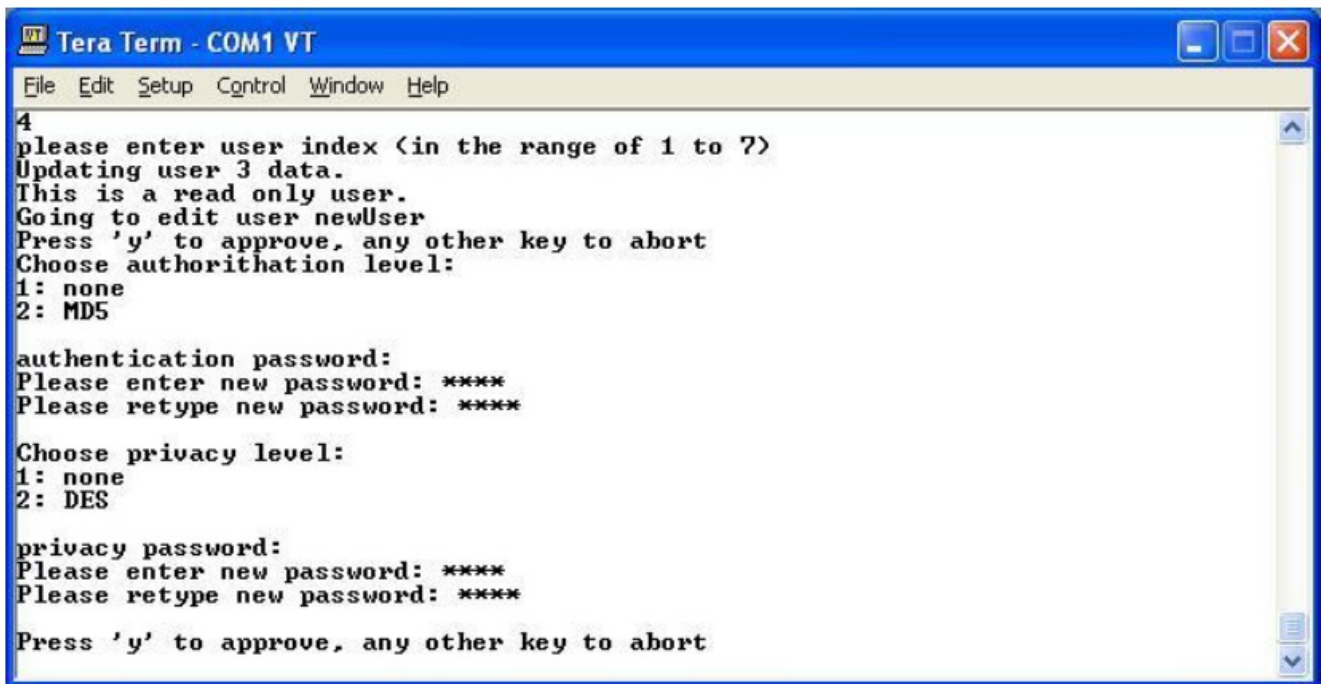
authentication password:
Please enter new password: ****
Please retype new password: ****

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

Update user



The screenshot shows a terminal window titled "Tera Term - COM1 VT" with a menu bar (File, Edit, Setup, Control, Window, Help). The text displayed is as follows:

```
4
please enter user index <in the range of 1 to ?>
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: ****

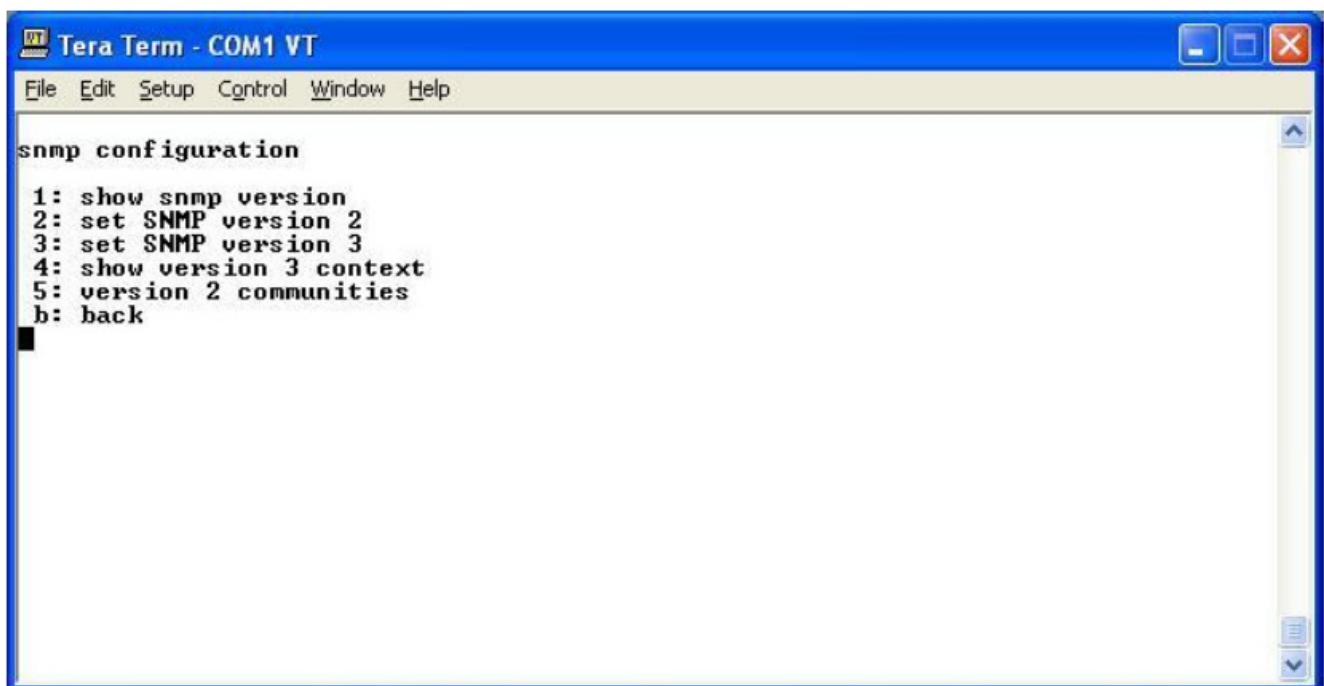
Choose privacy level:
1: none
2: DES

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

SNMP configuration



The screenshot shows a terminal window titled "Tera Term - COM1 VT" with a menu bar (File, Edit, Setup, Control, Window, Help). The text displayed is as follows:

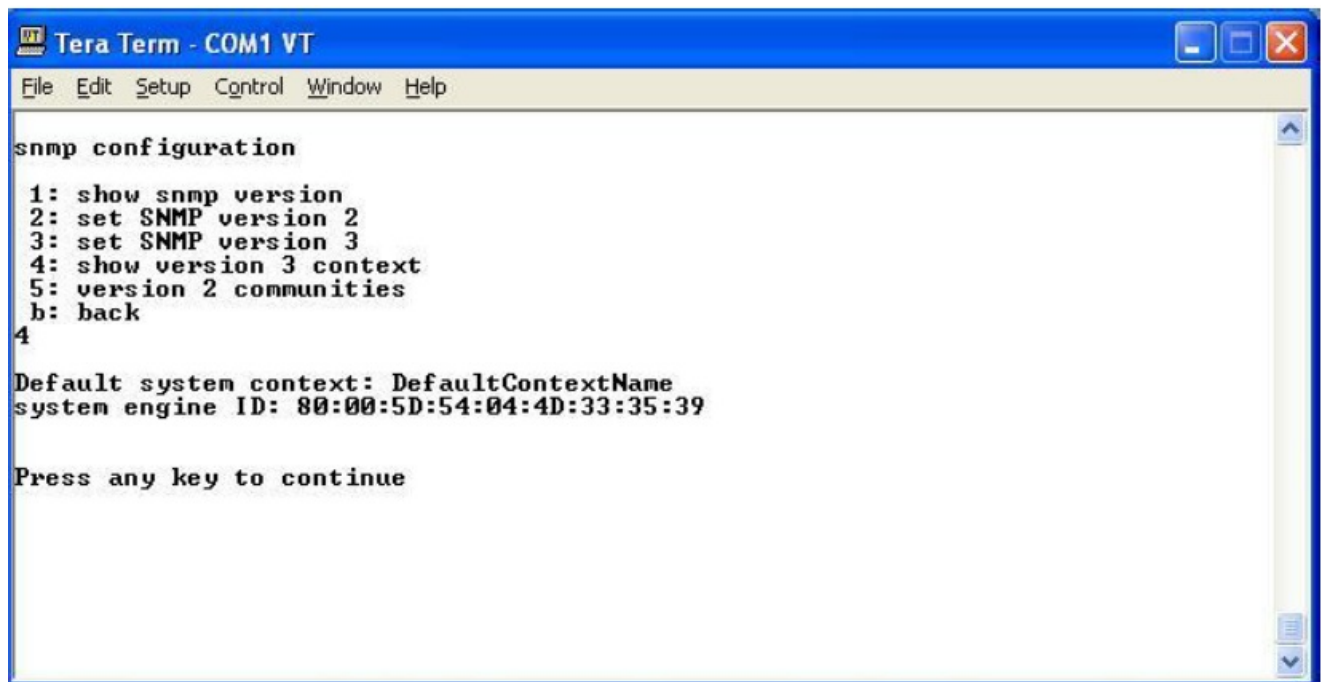
```
snmp configuration

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.

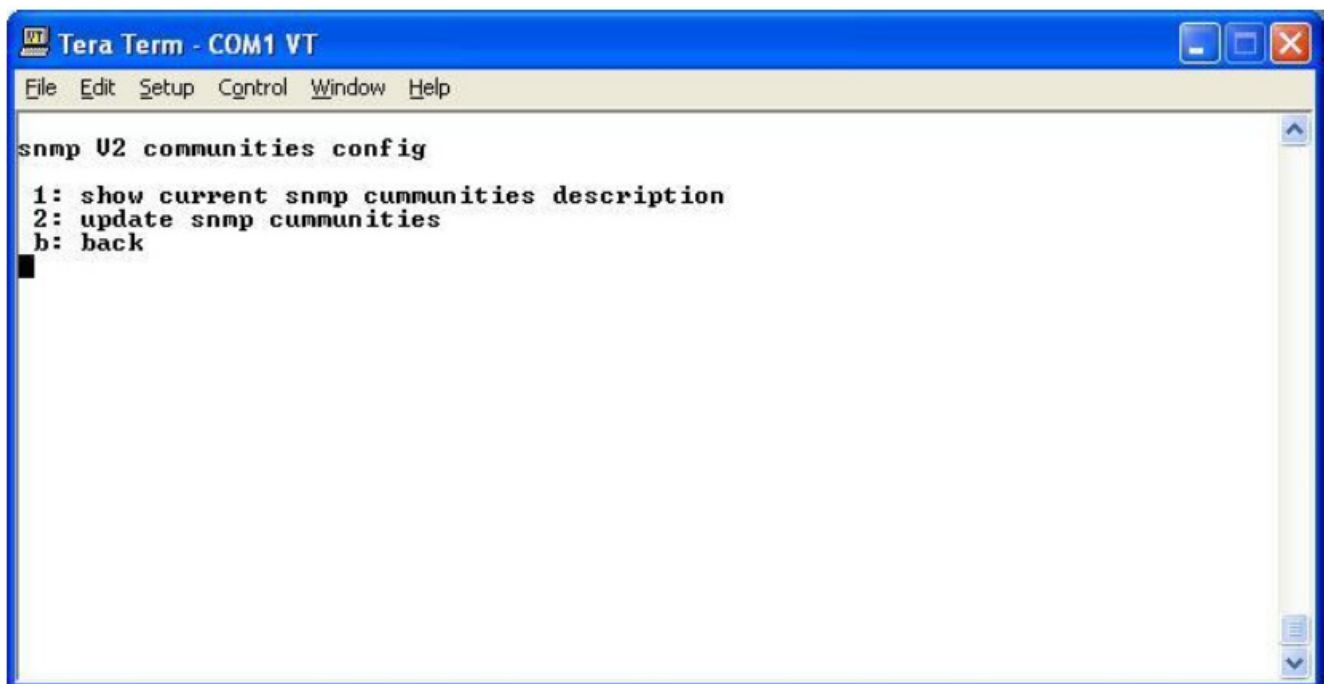
Show version 3 context (V3 only)



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 content:

```
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
```

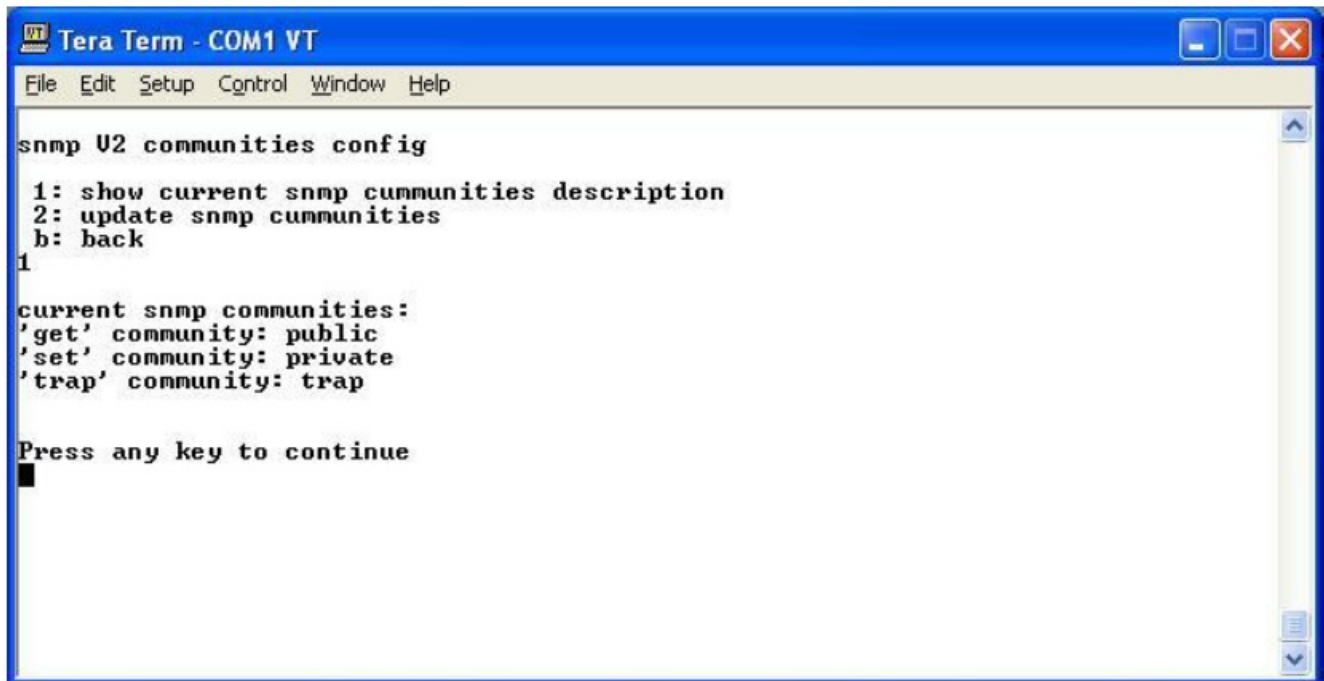
version 2 communities (V2 only)



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 content:

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

show SNMP v2 communities

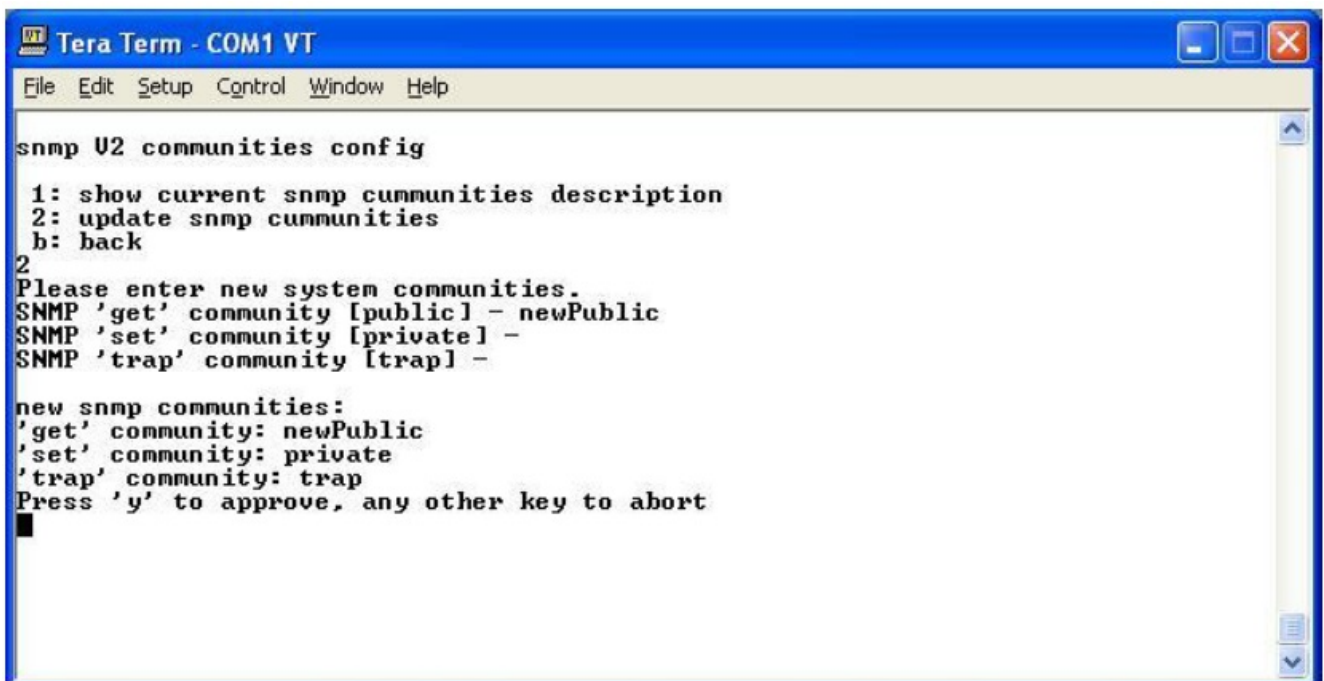


```
Tera Term - COM1 VT
File Edit Setup Control Window Help

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
█
```

update SNMP v2 communities

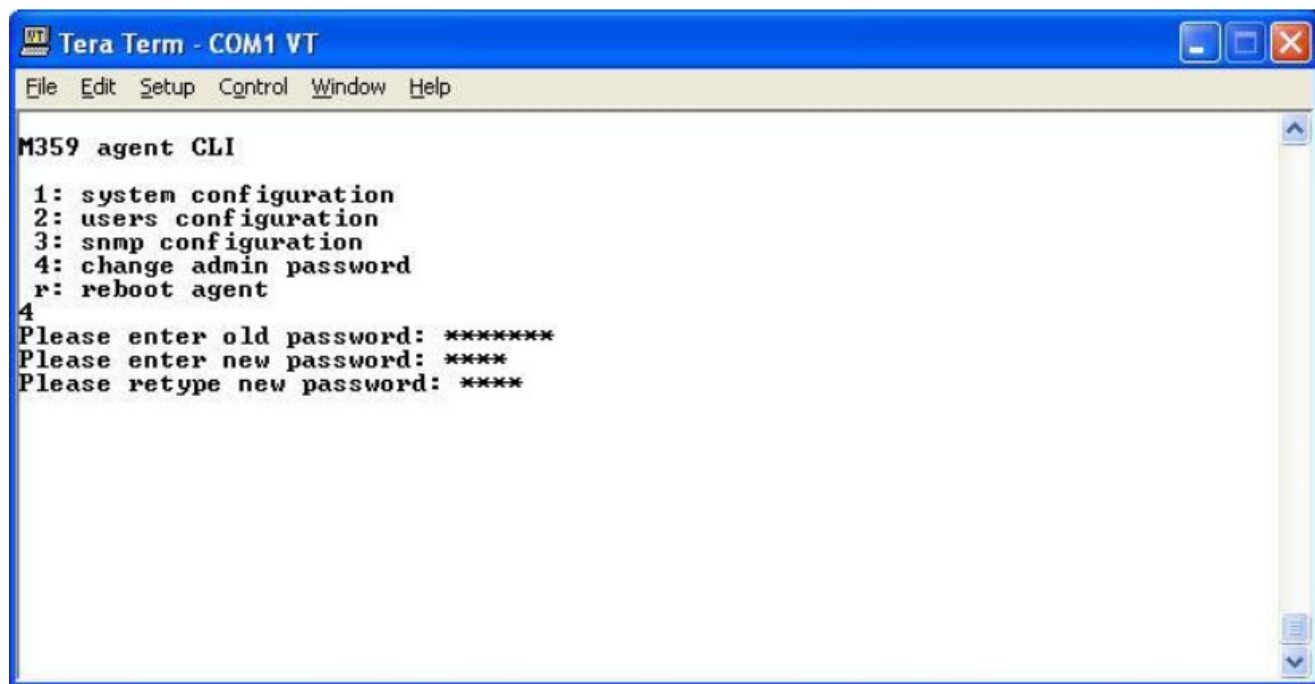


```
Tera Term - COM1 VT
File Edit Setup Control Window Help

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
█
```

Change admin password




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

FAQ

- **Q: What should I do if I encounter issues accessing the CLI?**

A: If you are unable to access the CLI, check the cable connection, COM port, UPS power status, and verify the firmware version for compatibility.

Documents / Resources

	<p>MILPOWER UPS SNMP CLI Simple Network Management Protocol Modules [pdf] User Manual</p> <p>UPS SNMP CLI Simple Network Management Protocol Modules, Simple Network Management Protocol Modules, Network Management Protocol Modules, Management Protocol Modules, Protocol Modules, Modules</p>
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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