masibus®

# Appendix- A

# TIME DISTRIBUTION RACK - 4

## Network Settings of TDR-4 using PC Windows as TELNET Client

**Masibus Automation And Instrumentation Pvt. Ltd.**
B/30, GIDC Electronics Estate,
Sector-25, Gandhinagar-382044, Gujarat, India
☎ +91 79 23287275-79 🖷 +91 79 23287281-82
Email: support@masibus.com
Web: www.masibus.com

# Contents

# 1. Setup of Masibus TDR-4 NTP Card

## 1.1. Default network settings for TDR-4 NTP card

**Ethernet Port 1:**
IP address : 192.168.100.153
Subnet Mask : 255.255.255.000
Gateway : 192.168.100.001
**Ethernet Port 2:**
IP address : 192.168.100.154
Subnet Mask : 255.255.255.000
Gateway : 192.168.100.001
**Ethernet Port 3:**
IP address : 192.168.100.155
Subnet Mask : 255.255.255.000
Gateway : 192.168.100.001
**Ethernet Port 4:**
IP address : 192.168.100.156
Subnet Mask : 255.255.255.000
Gateway : 192.168.100.001

**Telnet Login-name** : masibus
**Telnet Password** : masibus
**SNMP** : Disable
**SNMP Manager IP1** : 192.168.100.73
**SNMP Manager IP2** : 192.168.100.73
**SNMP Read Community** : masibus
**SNMP Write Community** : masibus
**Stratum of Local Clock** : 01

## 1.2. Procedure for First Time Setup

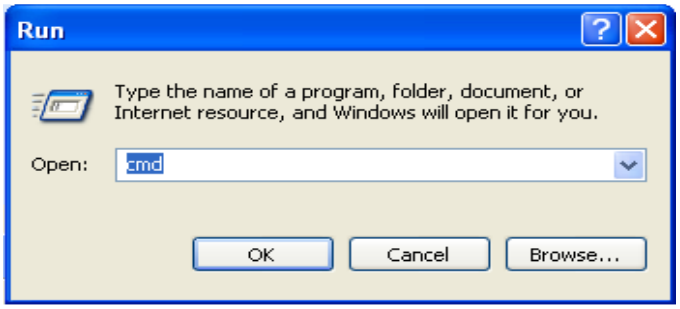
- First connect the TDR-4 NTP-1 output direct with local computer using an Ethernet cable. (Not in Network)
- Make the computer IP 192.168.100.XXX (XXX is any value between 1 to 255)
- Ping the TDR-4 IP & response must come from TDR-4. Close ping window. Now follow the below procedure.

**NOTE:** While changing Ethernet settings ping window should be closed.

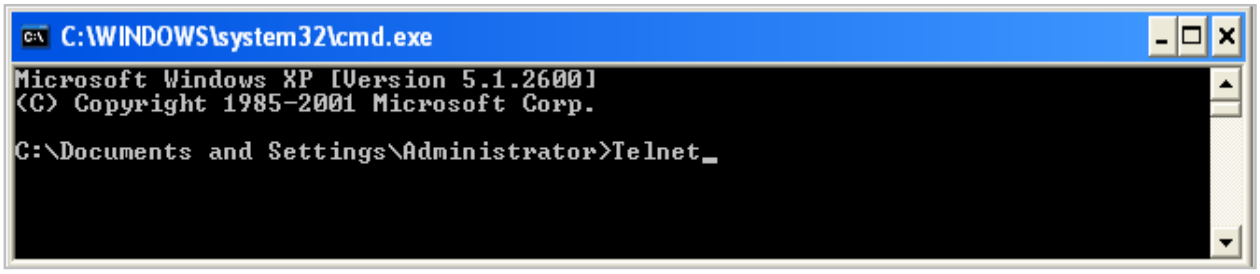
# 2. TDR-4 Ethernet port network settings using windows as TELNET client

## 2.1. Procedure to Login in Telnet Server

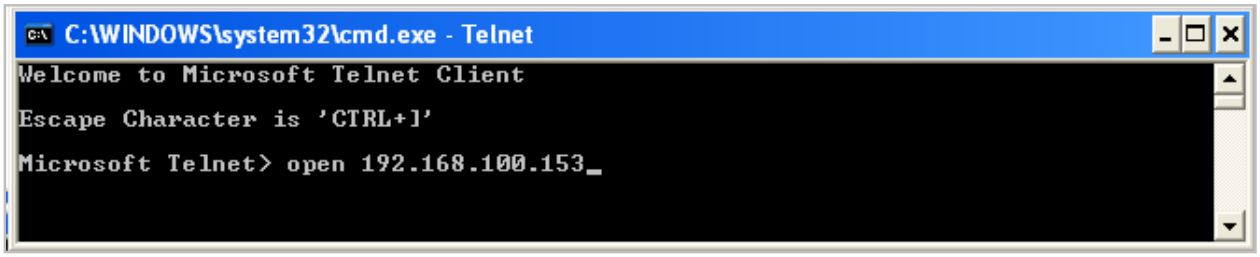
- **Open Command Prompt**



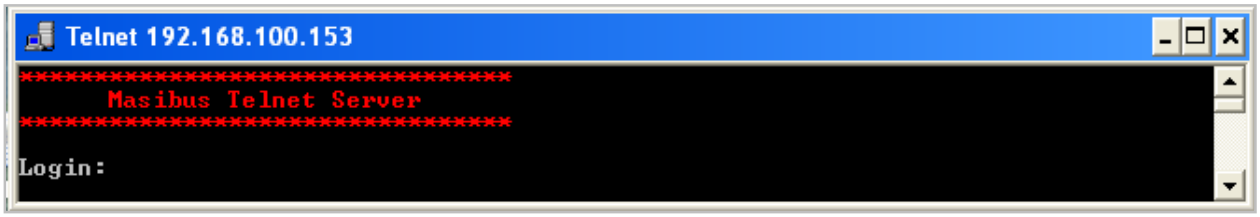

- **Write Telnet and press Enter.**




- **Write "open 192.168.100.153" and press Enter.**

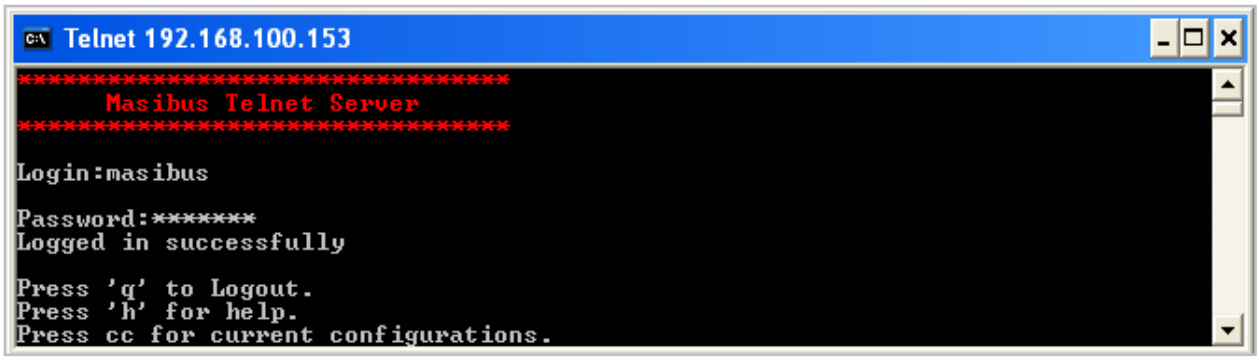



- **Following screen will be displayed.**



➢ **Enter Login and Password:**

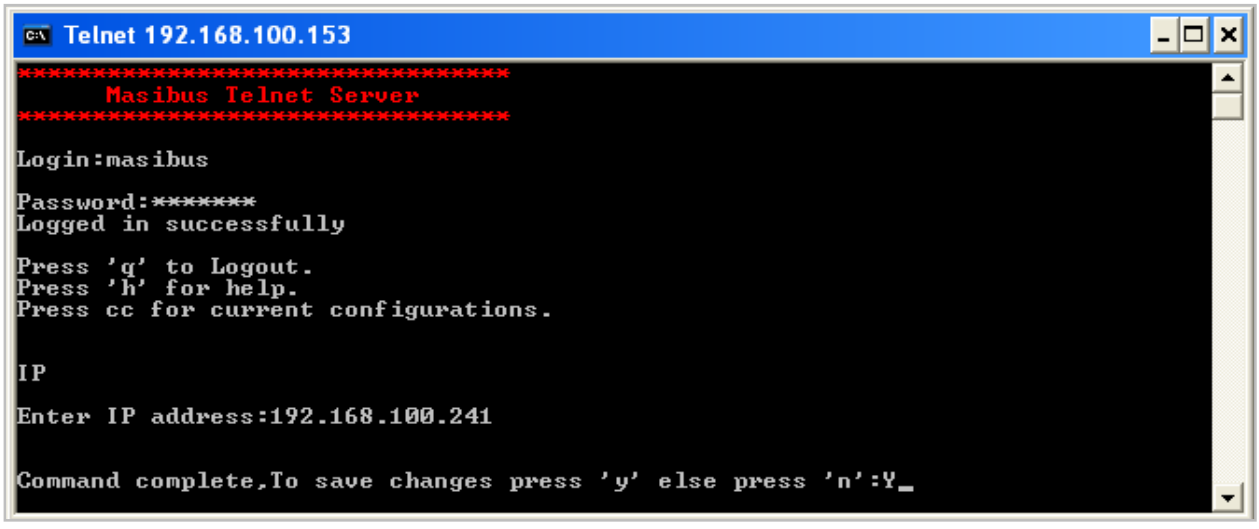
- Write Login–name and press enter. Now TDR-4 ethernet port will ask for password so write your Password and press enter. Login–name and password both are case sensitive. Default Login–name and password are shown in section 1.1.
- The **Immortal** Login name is '**masibus**', which cannot be changed. The **Immortal** Password is '**mc1**', which cannot be changed.




## 2.2. Telnet Commands

### 2.2.1 IP

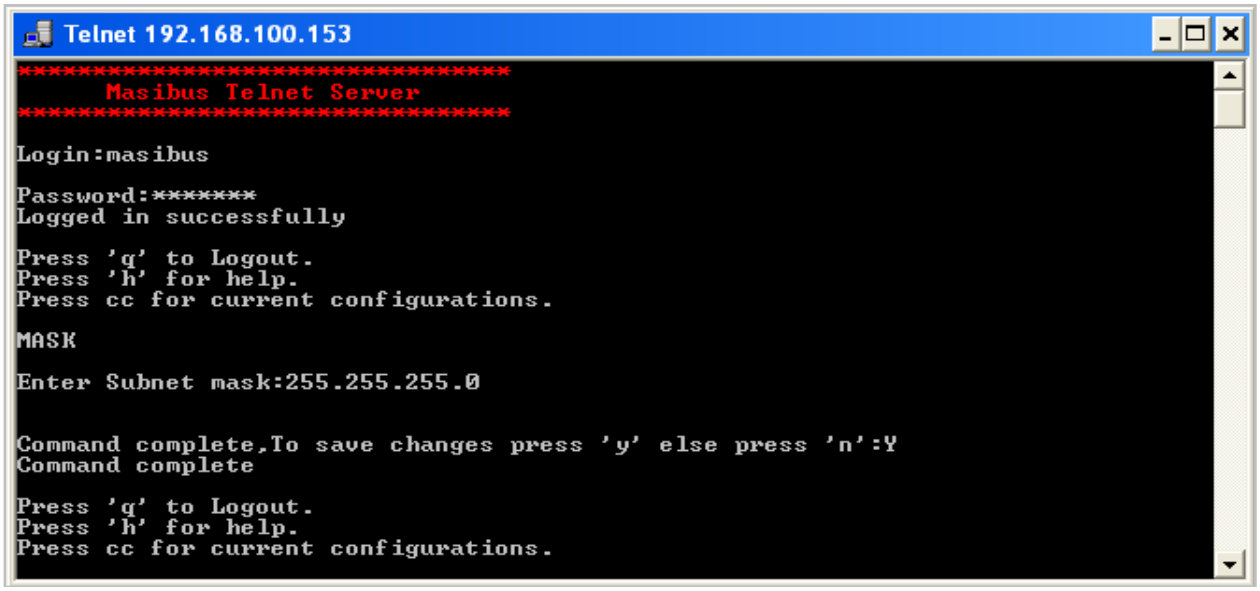
- This command is used to change IP address of Ethernet port of TDR-4.
- IP address should be entered in **xxx.xxx.xxx.xxx** form.
- Enter new IP address and press enter. To save the new IP address Press **'Y'** else press **'N'.** If you press **Y** new IP address will be saved and if you press **N** the previous IP address will be retained.
- Default IP address of Ethernet port of TDR-4 is shown in section 1.1.




### 2.2.2 MASK

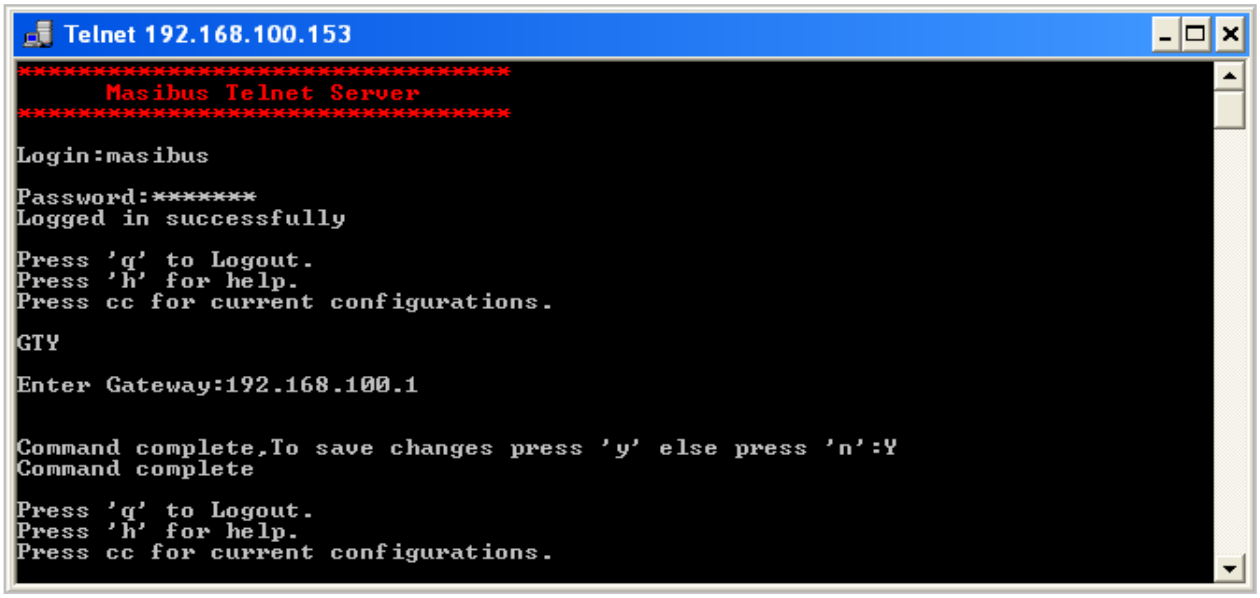
- This command is used to change Subnet Mask of Ethernet port of TDR-4.
- Subnet Mask should be entered in **xxx.xxx.xxx.xxx** form.

- Enter new Subnet Mask and press enter. To save the new Subnet Mask Press **'Y'** else press **'N'.** If you press **Y** new Subnet Mask will be saved and if you press **N** the previous Subnet Mask will be retained.
- Default Subnet mask of Ethernet port of TDR-4 is shown in section 1.1.



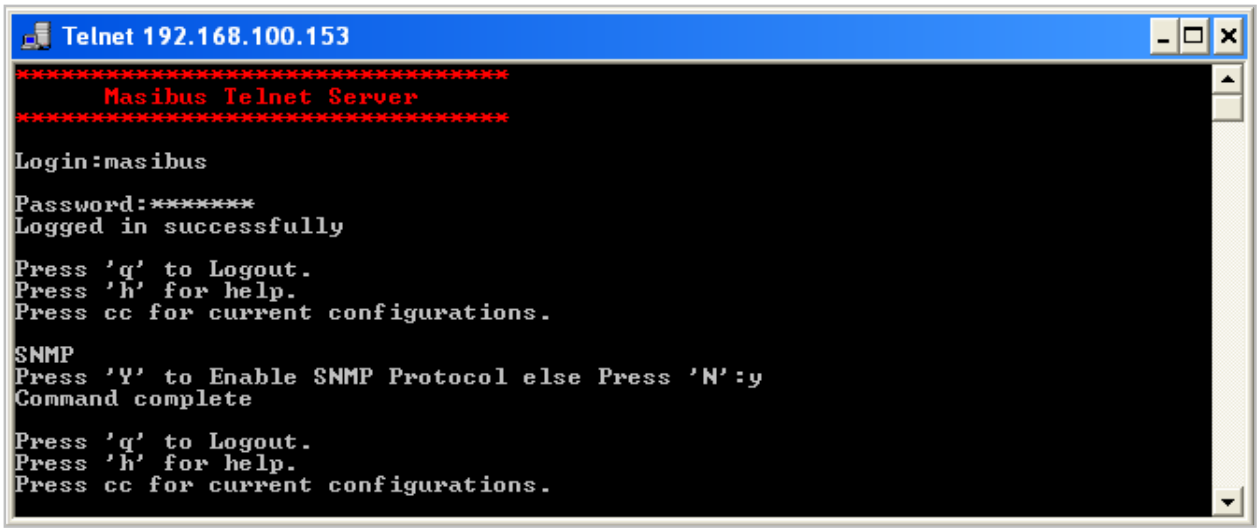

### 2.2.3 GTY

- This command is used to change Gateway of Ethernet port of TDR-4.
- Gateway should be entered in **xxx.xxx.xxx.xxx** form.
- Enter new Gateway and press enter. To save the new Gateway Press **'Y'** else press **'N'.** If you press **Y** new Gateway will be saved and if you press **N** the previous Gateway will be retained.
- Default Gateway of Ethernet port of TDR-4 is shown in section 1.1.



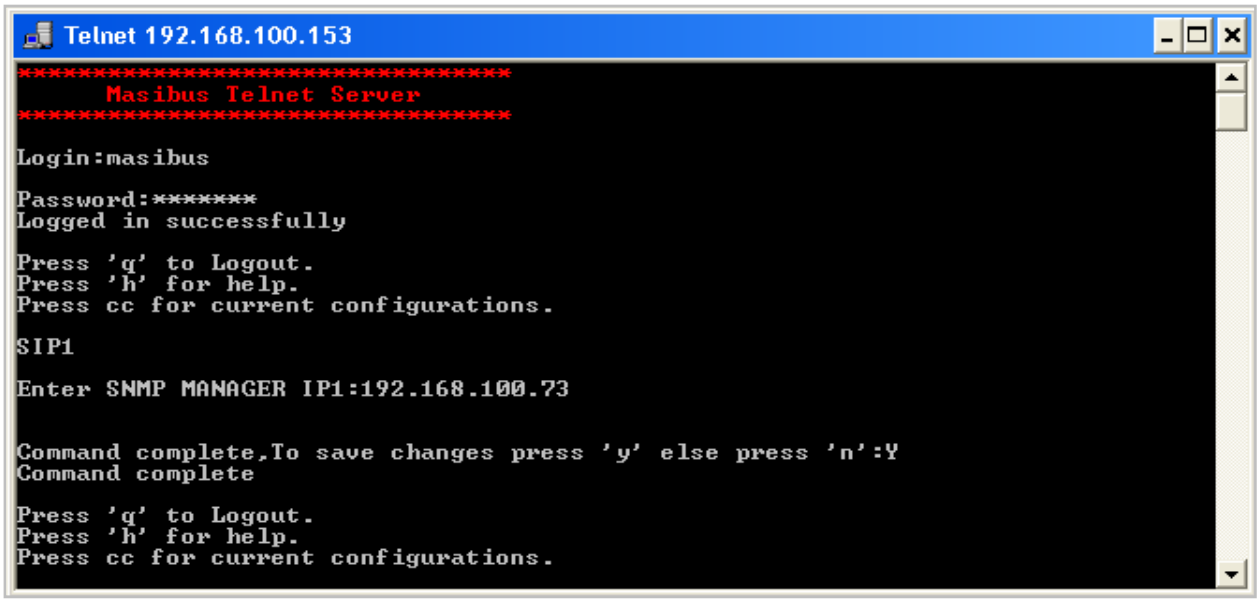
### 2.2.4 SNMP

- This Command is used to Enable/Disable SNMP protocol in perticular Ethernet port of TDR-4.
- To save the settings Press **'Y'** else press **'N'** message will come on telent window. If you press **Y** SNMP will be enabled and if you press **N** SNMP will be disabled.
- If SNMP is enabled, then SPI1 & SPI2, SRC, SWC commands are available to change the SNMP parameters.
- Default SNMP is shown in section 1.1.



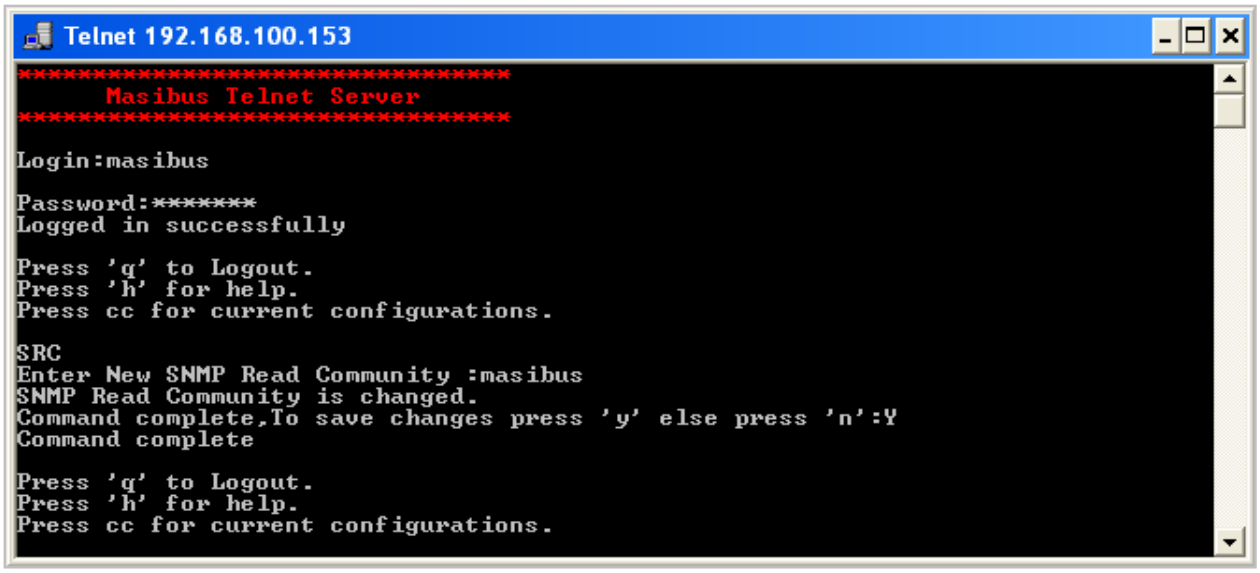

#### 2.2.4.1 SIP1 & SIP2

- These commands are used to change Manager IP address of SNMP Manager.
- IP address should be entered in **xxx.xxx.xxx.xxx** form.
- Enter new IP address and press enter. To save the new IP address Press **'Y'** else press **'N'.** If you press **Y** new IP address will be saved and if you press **N** the previous IP address will be retained.
- Default IP of SNMP manager is shown in section 1.1.



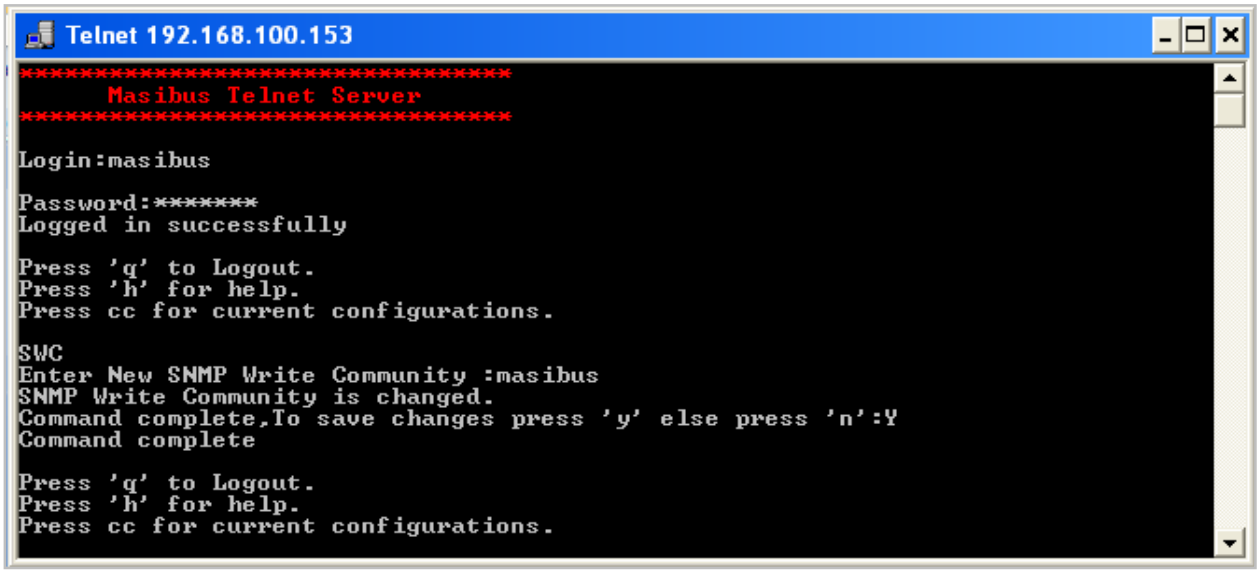
#### 2.2.4.2 SRC

- The user is allowed to change SNMP Read Community. The command for changing the SNMP Read Community is: **'SRC'**.
- Then enter new SNMP Read Community and press enter. To save the new SNMP Read Community Press **'Y'** else press **'N'.** If you press **Y** new SNMP Read Community will be saved and if you press **N** the previous SNMP Read Community will be retained.
- The default SNMP Read Community is shown in section 1.1.



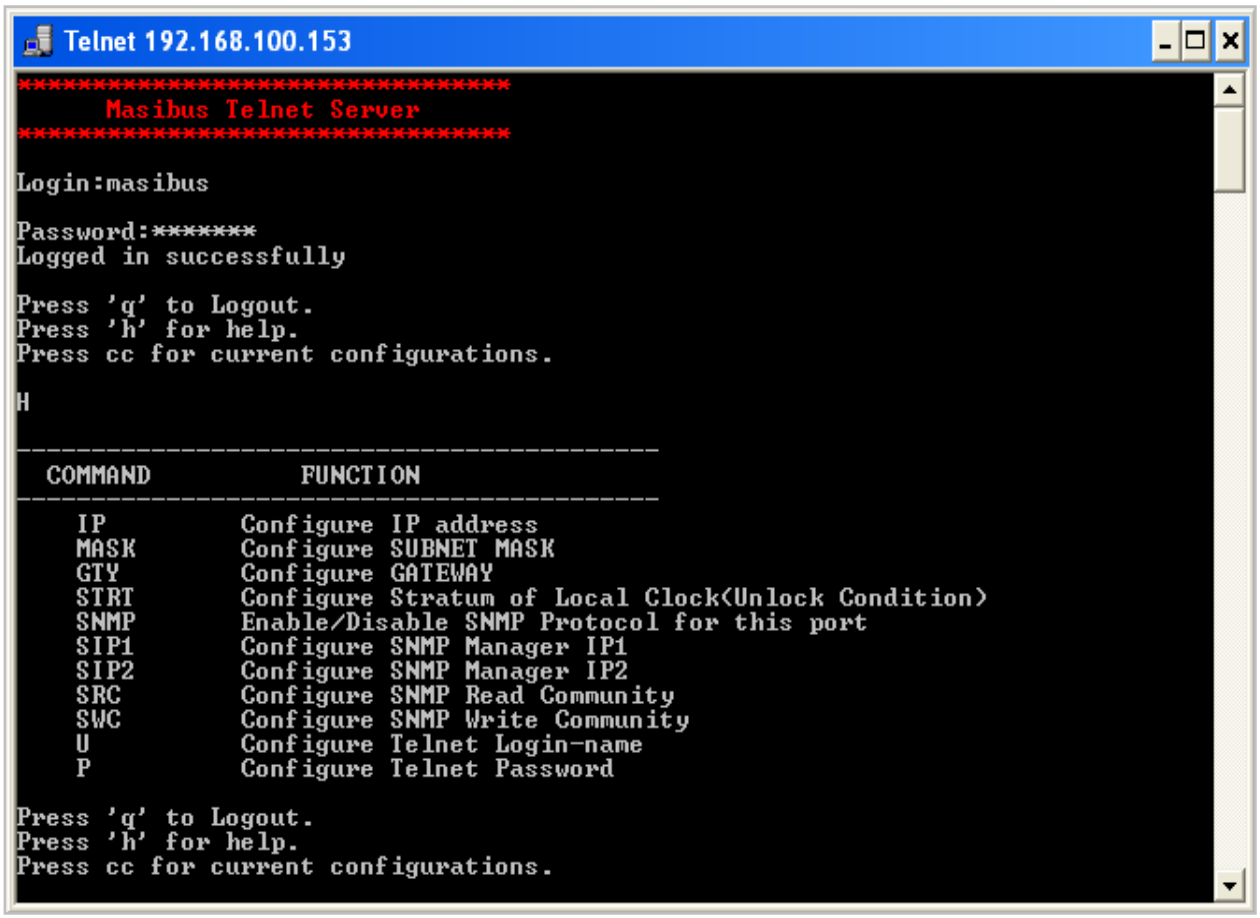

#### 2.2.4.3 SWC

- The user is allowed to change SNMP Write Community. The command for changing the SNMP Write Community is: **'SWC'**.
- Then enter new SNMP Write Community and press enter. To save the new SNMP Write Community Press **'Y'** else press **'N'.** If you press **Y** new SNMP Write Community will be saved and if you press **N** the previous SNMP Write Community will be retained.
- The default SNMP Write Community is shown in section 1.1.



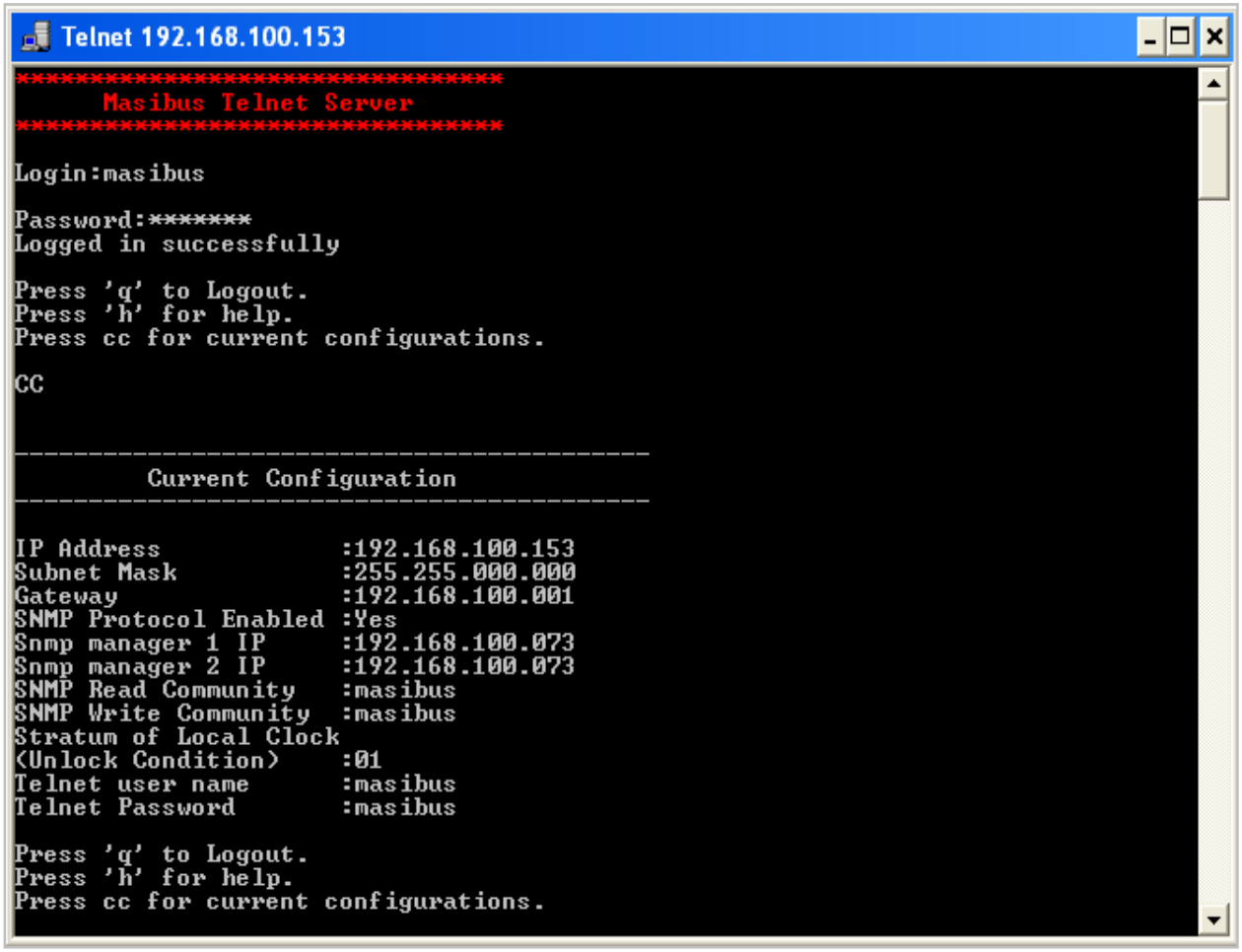
#### 2.2.4.4 H

- This **HELP** command is used to see different commands and their functions.(HELP Command window is shown below when SNMP is Enabled)



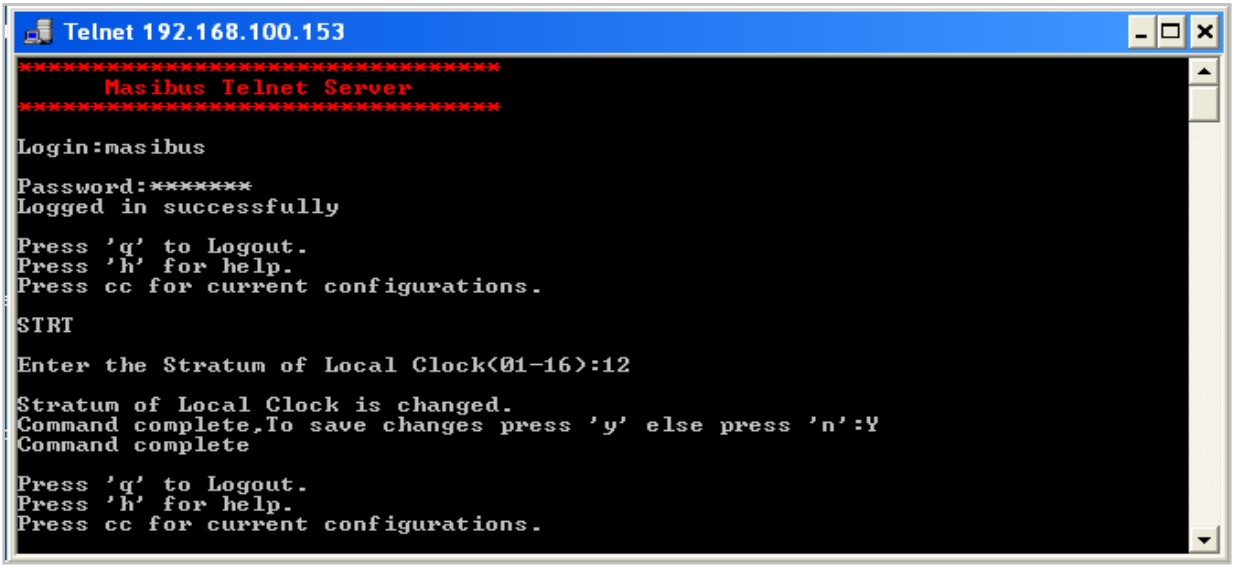

#### 2.2.4.5 CC

- This **CURRENT CONFIGURATION** command is used to see present Ethernet settings. (Current Configuration window is shown when SNMP is Enabled)



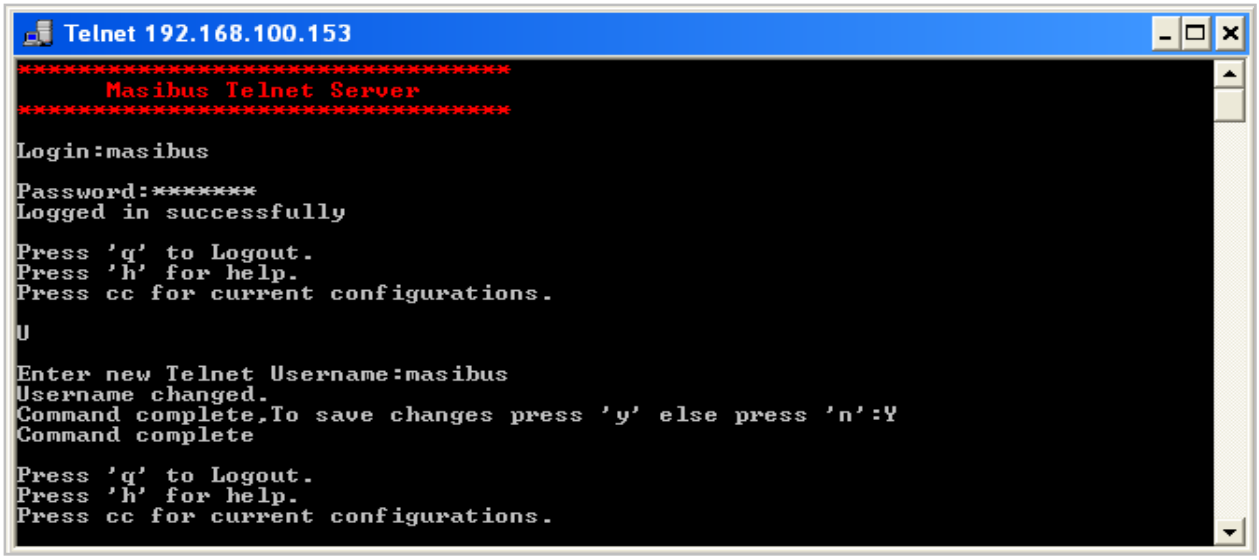

### 2.2.5 STRT

- This command is used to change Stratum of Ethernet port of TDR-4 in unlock condition which will be described from the frame format given as input to the TDR-4.
- Stratum should be entered in xx form.
- Enter new Stratum and press enter. To save the new Stratum Press 'Y' else press 'N'. If you press Y new Stratum will be saved and if you press N the previous Stratum will be retained.
- Default Stratum of Ethernet port of TDR-4 in unlock condition is shown in section 1.1.
- Stratum level can be changed between1 to 15 any other value is not accepted, for example to enter stratum level 5 user needs to enter 05.




### 2.2.6 U

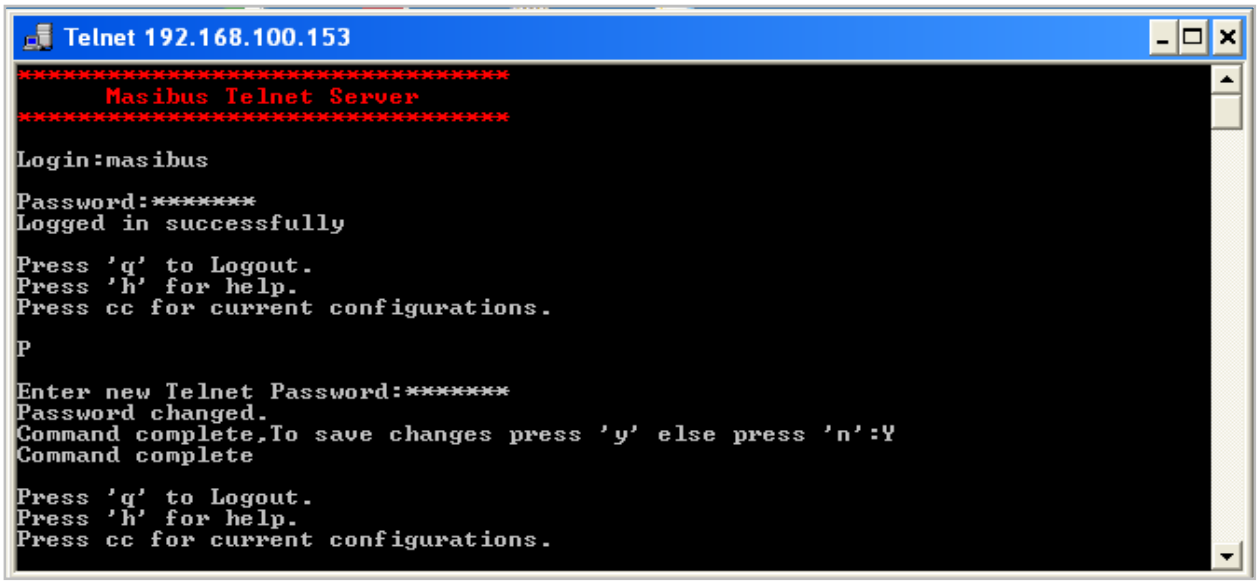
- The user is allowed to change telnet Login name. The command for changing the Login name is: **'U'**.
- Then enter new Login name and press enter. To save the new Login name Press **'Y'** else press **'N'.** If you press **Y** new Login name will be saved and if you press **N** the previous Login name will be retained.
- The default Login name is shown in section 1.1.
- Remember that the Login name should not exceed 10 characters. If you try to keep a Login name that has more than 10 characters, the system will show an error "Invalid Entry" and the previous Login name will be retained.




### 2.2.7 P

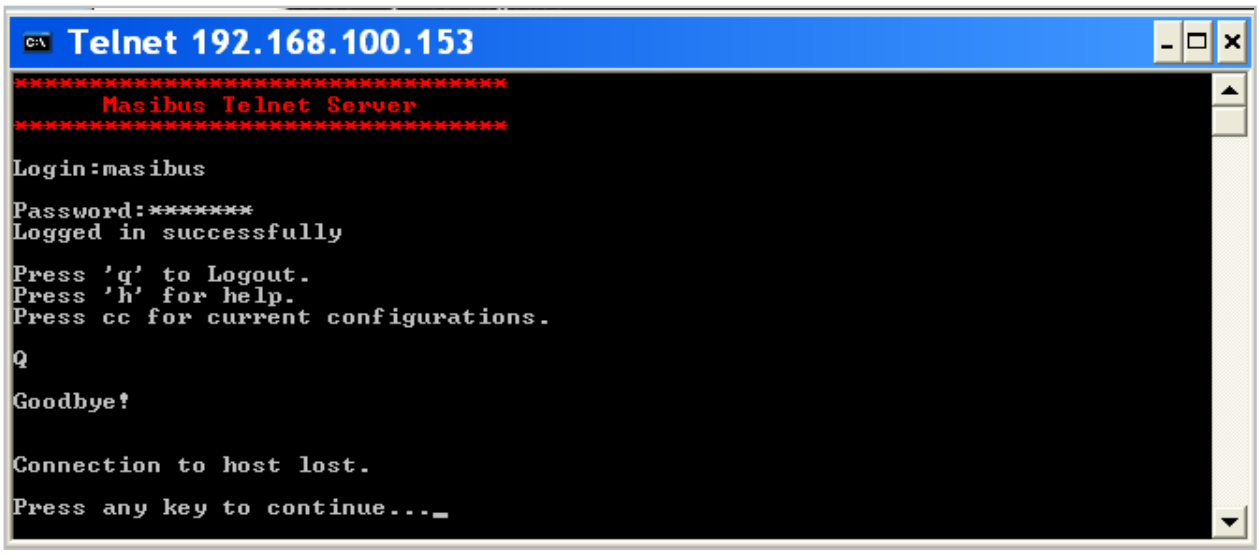
- The user is allowed to change telnet password. The command for changing the password is: **P** (password).

- Then enter new password and press enter. To save the new password press **'Y'** else press **'N'.** If you press **Y** new password will be saved and if you press **N** the previous password will be retained.
- The default password is shown in section 1.1.
- Remember that the password should not exceed 10 characters. If you try to keep a password that has more than 10 characters, the system will show an error "Invalid Entry" and the previous password will be retained.



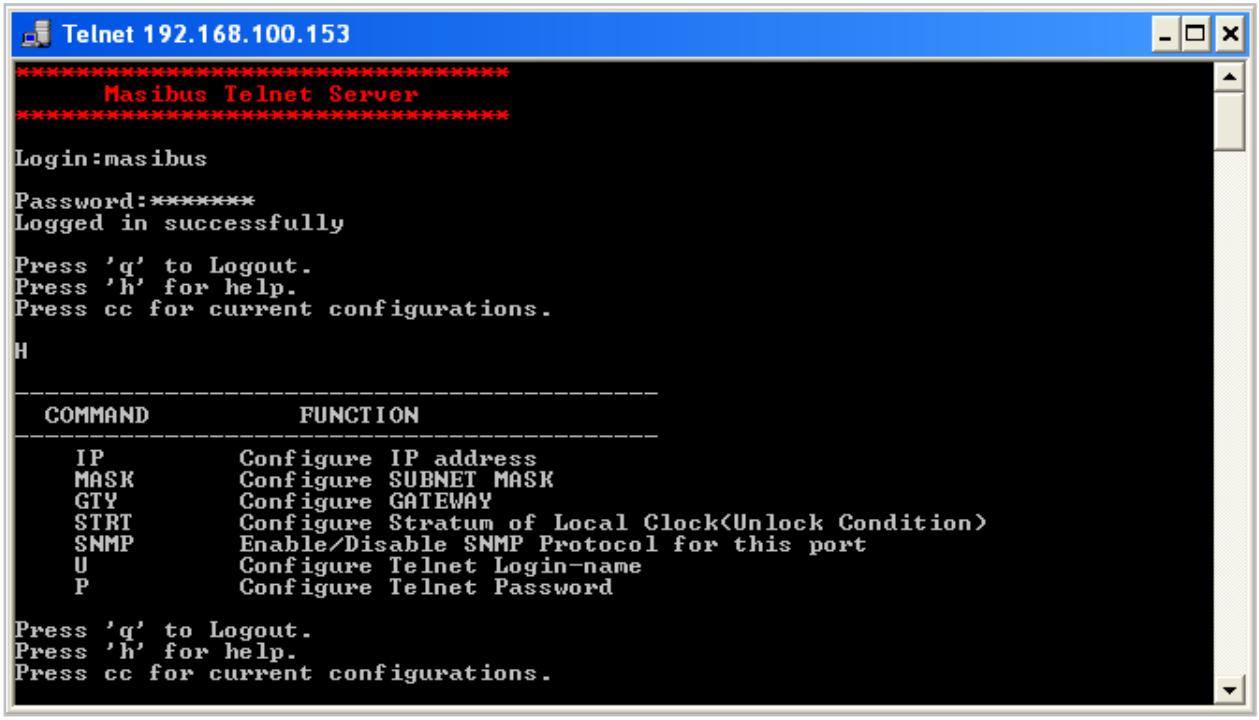

### 2.2.8 Q

- This command is used to close Telnet session.



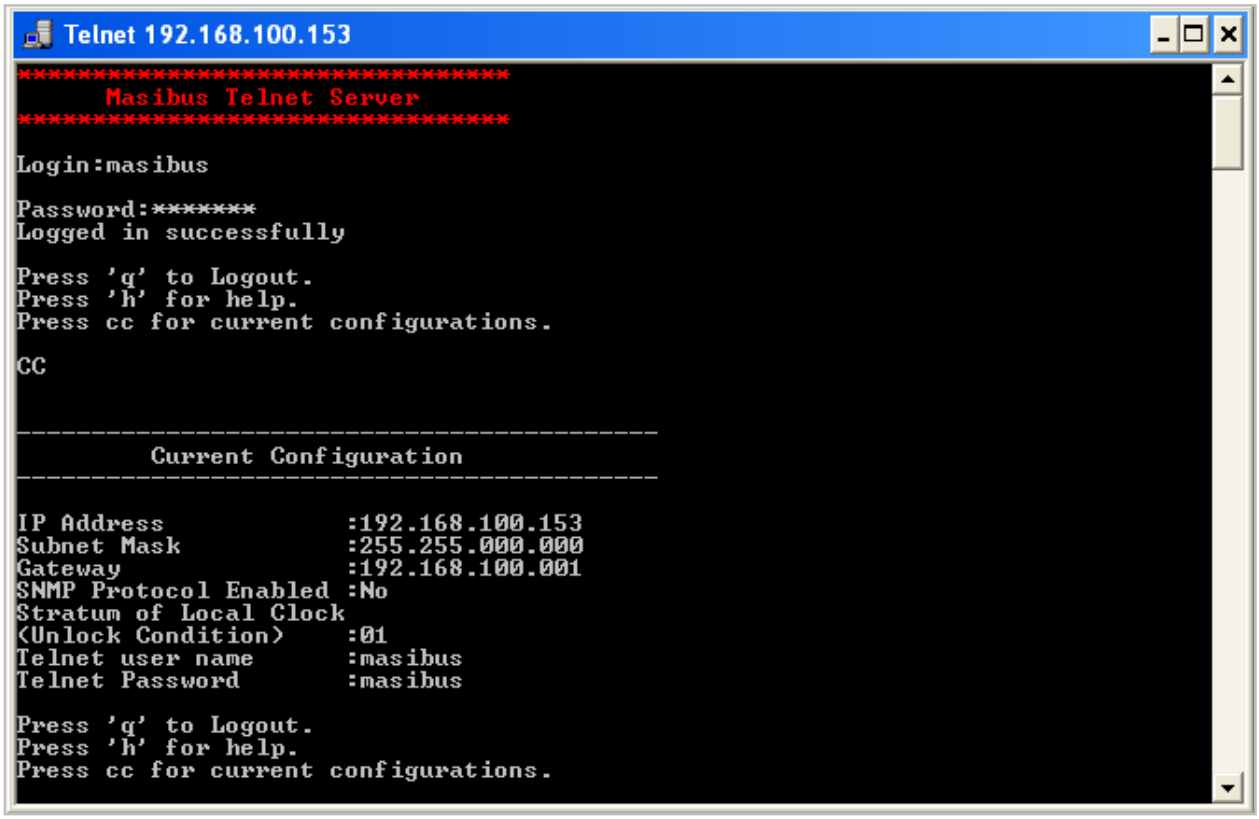

### 2.2.9 H

- This **HELP** command is used to see different commands and their functions.




### 2.2.10 CC

- This **CURRENT CONFIGURATION** command is used to see present Ethernet settings.



**NOTE:** If SNMP is enabled, then HELP and CC windows will be different as shown in **2.2.4.4** and **2.2.4.5** sections.

## 2.3. Default network settings:

- After default settings all NTP outputs of TDR-4 will have same Default network settings as shown in section 1.1.

- To set the network settings to default state,

  Follow the below procedure.

  - Switch off the TDR-4. Take out the NTP card from rack. Now “ON” the switch named GP1 of SW1 on card.
  - Fix NTP card in rack.
  - Connect NTP-1 output with PC through Straight Ethernet cable.
  - Right click on My Network Places -> Properties -> right click on Local Area Network-> Repair.
  - Now ping 192.168.100.153. Response must be come from NTP-1.
  - Repeat same procedure for NTP-2, NTP-3 and NTP-4.
  - Now again switch off TDR-4, take out NTP card from rack. “OFF” the switch named GP1 of SW1 on card.
  - Fix NTP card in rack. Connect NTP-1 with PC.
  - Now Right click on My Network Places -> Properties -> right click on Local Area Network-> Repair.
  - Open telnet session and change network settings according to your application.
  - Repeat same procedure for NTP-2, NTP-3 and NTP-4.

  **NOTE:** While changing Ethernet settings ping window should be closed.

## 2.4. Important Points:

- TDR-4 Telnet Server has timeout period of 5 minutes. If you do not press any character till minutes, the session will be automatically closed with a message of Timeout, Session Closed.

- NTP service will be stopped while Telnet session is opened. When you Logout from the session or change IP address or after timeout the NTP service will be automatically started.

- Login name and Password is case insensitive.