MD1230/MP1590 Remote Control Sample Readme

January 12, 2011, ANRITSU CORPORATION

Introduction

Remote Control Sample.tcl (hereafter, this script) is the sample script that send/receive remote commands of the MD1230/MP1590 family Ethernet remote control options by using Tcl/Tk.

This script is prepared to control MD1230/MP1590 families by sending remote commands under the TCP/IP socket connection to MD1230/MP1590 families. Setup and start/stop operations of Tx Stream functions as well as start/stop and readout operations of Counter are supported.

The following items are essential to execute this script.
- MD1230/MP1590 family mainframe (MD1230B or MP1590B)
- Ethernet control option
- Ethernet module (MU1201XXA)

About Tcl/Tk

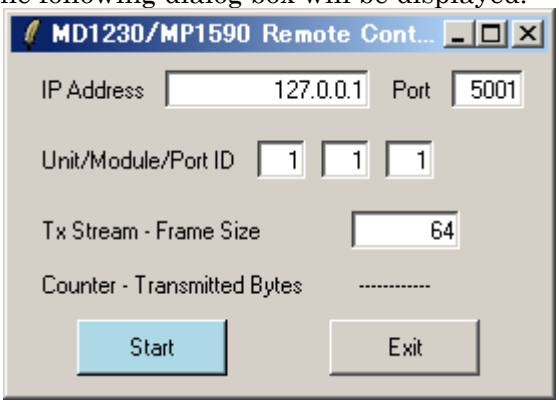
To execute this sample script, Tcl/Tk should be installed in the control PC or in MD1230B/MP1590B. If Tcl/Tk is not installed yet, download the installation Wizard from http://www.tcl.uk/.
→For PC with MX123001A installed or MD1230B mainframe, you can also install as described in "ActiveTcl installation procedure".

This document is prepared for the people with sufficient knowledge of Tcl/Tk.
Refer to the related Internet sites or books for detail knowledge and usage to use Tcl/Tk.

This feasibility of this script has been verified on ActiveTcl 8.3.

An example of Execution Procedure of This Script

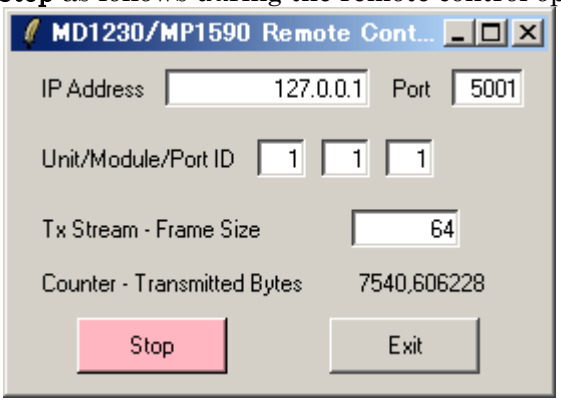
1. Insert the Ethernet module into the MD1230/MP1590 family mainframe to set up the Ethernet control option. For details, refer to "Section 4 Ethernet Interface" in *MD1230B Remote Control Operation Manual*.
2. Start this script. Then the following dialog box will be displayed.



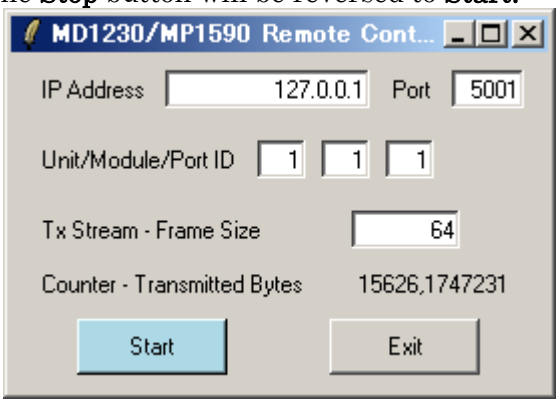
- Enter the values according to the table below

Item	Description
IP Address, Port	IP address and TCP port number of MD1230/MP1590 family mainframe to be connected.
Unit/Module/Port ID	The measurement port number.
Frame Size	The size of the frame to be sent by Tx Stream function.

- Click the **Start** button to begin remote command operation.
  Tx Stream setups and starting TX Stream transmission as well as Counter are executed by remote command sending/receiving operations. Counter value (Transmitted Bytes) will be periodically readout to be indicated on the display. The indicated character on the **Start** button will be alternated with **Stop** as follows during the remote control operation.



- Click **Stop** to stop the remote control measurement operation. After all of the Tx Stream transmission, Counter and periodic Counter value readout operations have been stopped, the indicated character on the **Stop** button will be reversed to **Start.**



Appendix: ActiveTcl installation procedure

If using PC with MX123001A installed or the MD1230B mainframe, install Tcl/Tk as explained below.

1. Double-click the ActiveTcl installer file to load the installer.

MD1230B	`C:¥MD1230A¥Tcl¥installable ¥ActiveTcl8_3_4_2-1win32-ix86.exe`
MX123001A	`C:¥Program Files¥Anritsu¥MX123001A¥Tcl¥installble ¥ActiveTcl8.3.4.3-win32-ix86.exe`

2. In the "WinZip Self-Extractor - ActiveTcl8_3_4_2-1-win32-ix86.exe" screen, click **Setup**. A progress bar displays.
3. When unzipping is complete, ActiveState Tcl content will be displayed. Click **Next**.
4. License agreement confirmation screen is displayed. Click **I accept**…, and then click **Next**.
5. The dialog box to enter the destination of installation will be displayed. Do not change the destination; click **Next**.
6. The similar dialog box to enter the destination of installation will be displayed again. Do not change the destination; click **Next**.
7. The list box indicating the final destination of installation will be displayed. Click **Next** to start file copy.
8. When the copy has been executed, the **Finish** button will be displayed. Click **Finish** button to close the installation.