How to download a Topcon GB-1000 receiver using Iftp

489 Beth Bartel September 9, 2009 Application Notes 1498

How to download a Topcon GB-1000 receiver using Iftp

Use the following script utilizing lftp to download data off the internal memory of a Topcon GB-1000 receiver. This script uses lftp's ability to mirror two directories.

```
# Script to mirror the internal memory
# of a Topcon GB-1000 to a local directory.
# File download is quite fast: takes about 82seconds
# for a daily 1second file.
#
# Setup:
# Set your ethernet port on your computer to have IP: 192.168.1.3
# and Subnet-Mask: 255.255.25.0. Then connect an ethernet
# cable from your computer to the GB-1000.
#
# Use:
# user@linux> ./ftp_download <dir-to-downlaod-to>
# Example:
# user@linux> ./ftp_downlaod site1
# ( will download data to ./site1/ )
# If the local directory does not exist lftp will
# create.
# Behavior of script if you run it more than once
# against the same local direcotry:
# 1) matching files are skipped and nothing is done.
#2) if a new file is on the GB-1000 that is not on the
  local directory it is copied over.
# 3) if there is a difference between a file on the GB-1000
   and on the local directry (possibly because you have
   previously downloaded a partial file and now the file is
   bigger) the script will delete the smaller local file and
   replace it with the new larger file.
# Note: If you kill the script while it is running with ctrl-c
   make sure to run:
#
   user@linux> rm -f lftp_download_cmds.x
```

```
#
  to clear the file containing lftp commands generated by the
   script. The file is deleted after a successful execuation
# of the script.
#! /bin/bash
# Constants needed.
HOST='192.168.1.2'
                                      # IP of GB-1000
SITE=$1
                                     # dwnld dir specifed at run time
USER="
                                     # user name
PASSWD='TOPCON'
                                        # GB-1000 password
CMD_FILE="./lftp_download_cmds.x"
                                           # file containing lftp commands
# Can't run if you don't specify a directory to download to.
if [ "$SITE" = "" ]; then
  echo "You must specify a download directory. "
  exit 1
else
  # Commands to be fed into lftp.
  echo "open -u $USER,$PASSWD $HOST"
                                               >> $CMD_FILE;
  echo "mirror -e --verbose=3 / test/"
                                            >> $CMD FILE;
  # Run lftp with the command file created above.
  lftp -f $CMD_FILE
  # Clean up, delete lftp_download_cmds.x file.
  rm -f $CMD FILE
fi
```

Online URL:

https://kb.unavco.org/article/how-to-download-a-topcon-gb-1000-receiver-using-lftp-489.html