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ser2net を使う (RFC-2217 対応 COM Port Redirecter)

[socat を使う \(シリアル-TCP変換, etc.\)](#) で紹介した socat を使用する場合、シリアルポートの設定(ビットレート、キャラクタバイト数など)を変更することはできません。シリアルポートの設定変更に対応したプロトコルとして [RFC-2217 - Telnet Com Port Control Option](#) というものが策定されており、それに対応したアプリケーションが [ser2net](#) です。

設定

/etc/ser2net.conf ファイルを作成 編集します。

サンプルファイルとして `/etc/ser2net.conf.example` というファイルが入っていますので、それを変更して作成すると楽です。

[ser2net.conf.example](#)

```
#
# This is the configuration file for ser2net.  It has the following
# format:
# <TCP port>:<state>:<timeout>:<device>:<options>
#   TCP port
#       Name   or number of the TCP/IP port to accept con-
#       necti-  onctions from for this device.  A port number may
#       be of  the form [host,]port, such as 127.0.0.1,2000
#       or localhost,2000.  If this is specified, it will
#       only  bind to the IP address specified.  Otherwise
#       it   will bind to all the ports on the machine.
#
#   state   Either raw or rawlp or telnet or off.  off disables
#           the port from accepting connections.  It can be
#           turned on later from the control port.  raw enables
#           the port and transfers all data as-is between the
#           port and the long.  rawlp enables the port and
#           transfers all input data to device, device is open
#           without any termios setting.  It allow to use
#           /dev/lpX devices and printers connected to them.
#           telnet enables the port and runs the telnet proto-
#           col on the port to set up telnet parameters.  This
#           is most useful for using telnet.
#
#   timeout The time (in seconds) before the port will be dis-
#           connected if there is no activity on it.  A zero
#           value disables this funciton.
#
```

```
# device The name of the device to connect to. This
# must be in the form of /dev/<device>.
#
# options
# Sets operational parameters for the serial port.
# Options 300, 1200, 2400, 4800, 9600, 19200, 38400,
# 57600, 115200 set the various baud rates. EVEN,
# ODD, NONE set the parity. 1STOPBIT, 2STOPBITS set
# the number of stop bits. 7DATABITS, 8DATABITS set
# the number of data bits. [-]XONXOFF turns on (-
# off) XON/XOFF support. [-]RTSCTS turns on (- off)
# hardware flow control, [-]LOCAL turns off (- on)
# monitoring of the modem lines, and
# [-]HANGUP_WHEN_DONE turns on (- off) lowering the
# modem control lines when the connexion is done.
# NOBREAK disables automatic setting of the break
# setting of the serial port.
# The "remctl" option allow remote control (ala RFC
# 2217) of serial-port configuration. A banner name
# may also be specified, that banner will be printed
# for the line. If no banner is given, then no
# banner is printed.
#
# or...

# BANNER:<banner name>:banner
# This will create a banner, if the banner name is given in the
# options of a line, that banner will be printed. This takes the
# standard "C" \x characters (\r is carriage return, \n is newline,
# etc.). It also accepts \d, which prints the device name, \p,
# which prints the TCP port number, and \s which prints the serial
# parameters (eg 9600N81). Banners can span lines if the last
# character on a line is '\'. Note that you *must* use \r\n to
# start a new line.
#
# Note that the same device can be listed multiple times under
different
# ports, this allows the same serial port to have both telnet and raw
# protocols.

# The original config file shipped with the upstream sources can be
# found in /usr/share/doc/ser2net/examples

BANNER:banner:\r\nser2net port \p device \d [\s] (Debian
GNU/Linux)\r\n\r\n

2000:telnet:600:/dev/ttyS0:9600 8DATABITS NONE 1STOPBIT banner
2001:telnet:600:/dev/ttyS1:9600 8DATABITS NONE 1STOPBIT banner
3000:telnet:600:/dev/ttyS0:19200 8DATABITS NONE 1STOPBIT banner
```

```
3001:telnet:600:/dev/ttyS1:19200 8DATABITS NONE 1STOPBIT banner
```

ドライバ

Windows からアクセスするためのドライバもあります。

HW VSP3



- [HW VSP3 - Virtual Serial Port](#)

Features (抜粋)

- Free, unrestricted Virtual Serial Port driver for any TCP/IP devices
- Compatible with Windows 2000, XP (Win 98, NT), Windows 8 & even 32-bit or 64 bit.
- Runs as a standalone application, or as a NT service suitable for servers
- This software is FREeware, as long as you comply with the license terms and conditions

64bit にも対応しているという点がいいですね。

Null-modem emulator (com0com)

- <http://com0com.sourceforge.net/>

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https://ma-tech.centurysys.jp/doku.php?id=mae3xx_tips:setup_ser2net:start

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