

Version 1.1
03 / 2018

macOS USB Driver

For all **SCS** modems

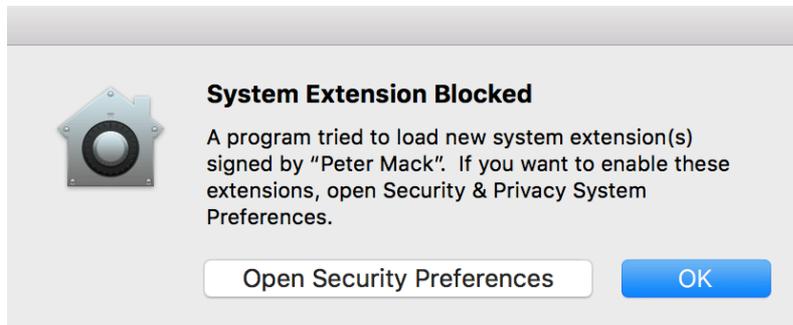
SCS Special Communications Systems



Installing the driver

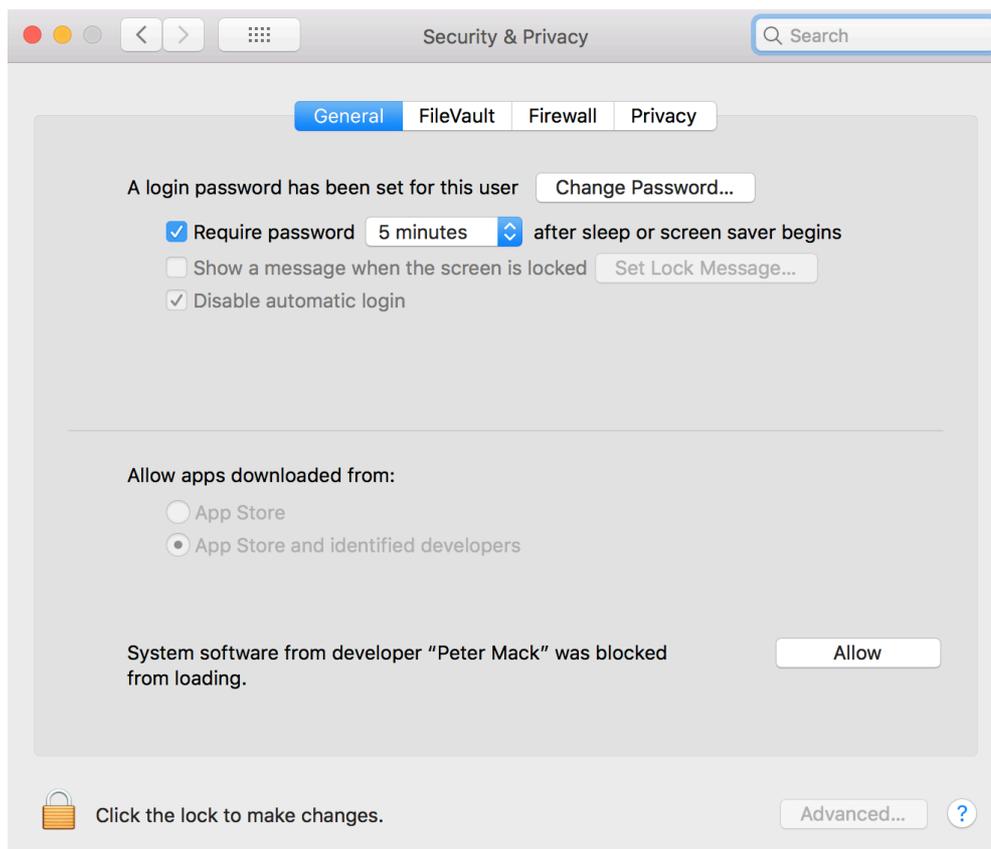
Double click on the installer package `SCSUSBSerialDriver.pkg` and follow the instructions.

Beginning with macOS High Sierra Apple added additional security when loading third party drivers. So you will see the following message during the last stage of the installation process:



The `SCSUSBSerialDriver.pkg` and the contained driver were properly signed with the private Apple developer ID of one of the **SCS** members (Peter Mack).

So you have to click on "Open Security Preferences". This leads you to the following dialog:



Click to "Allow" to continue the installation process.

Testing the driver

After successful installation of the driver you may now connect your **SCS** modem to your Mac using a standard USB cable.

To check if everything works start the Apple Terminal app from the Applications->Utilities folder. Enter the following command and press the Return key:

```
ls -l /dev/tty.*
```

You should see something like:

```
bash-3.2$ ls -l /dev/tty.*
crw-rw-rw-  1 root  wheel   17,  20  5 Feb 10:36 /dev/tty.Bluetooth-Incoming-Port
crw-rw-rw-  1 root  wheel   17,   2  5 Feb 10:36 /dev/tty.SCSDRAGON7800-DRXPT6RZ
```

You should see an entry like

```
/dev/tty.SCSDRAGON7800-DRXPT6RZ
```

SCSDRAGON7800 if you have a **SCS** P4dragon DR-7800 or

SCSDRAGON7400 if you have a **SCS** P4dragon DR-7400.

DRXPT6RZ is a more or less random number.

Now you can use the simple serial communications app like CoolTerm from <http://freeware.the-meiers.org> to communicate with your modem.

Because this app is not signed you have to follow these steps to start the app the first time:

- 1) In Finder, Control-click or right click the icon of the app.
- 2) From the contextual menu that appears select Open while holding down the command key.

Using CoolTerm

Setting up CoolTerm for the use with **SCS** modems is pretty straight forward. Only a few settings have to be changed. First open the Option dialog from the Connection menu or click on the Options icon at the tool bar. The following dialog shows up:

Serial Port Options

Port: SCSDRAGON7400-D...

Baudrate: 115200

Data Bits: 8

Parity: none

Stop Bits: 1

Flow Control: CTS
 DTR
 XON

Software Supported Flow Control
 Block Keystrokes while flow is halted

Initial Line States when Port opens:
 DTR On DTR Off
 RTS On RTS Off

Re-Scan Serial Ports

Cancel OK

Choose the appropriate Port and set the Baudrate to 115200.

For the **SCS** Tracker / DSP TNC set the Baudrate to 38400 (if not changed with DIP switch 2).

Uncheck "Software Supported Flow Control".

Select the Terminal tab:

Terminal Options

Terminal Mode: Raw Mode
 Line Mode

Enter Key Emulation: CR

Custom Sequence (Hex): 00 1B

Local Echo
 Replace TAB key with spaces
No. of spaces: 4

Special Character Handling

Format TAB separated text
Column width: 8

Replace consecutive spaces with TAB
Min. number of spaces: 2

Filter ASCII Escape Sequences
 Convert Non-printable Characters
 Handle BS and DEL Characters
 Handle Bell Character
 Handle Form Feed Character
 Handle End Of Text Character
 Ignore Line Feed Character
 Use UTF-8 to display plain text

Click Ok.

Cancel OK

Set "Enter Key Emulation" to CR.

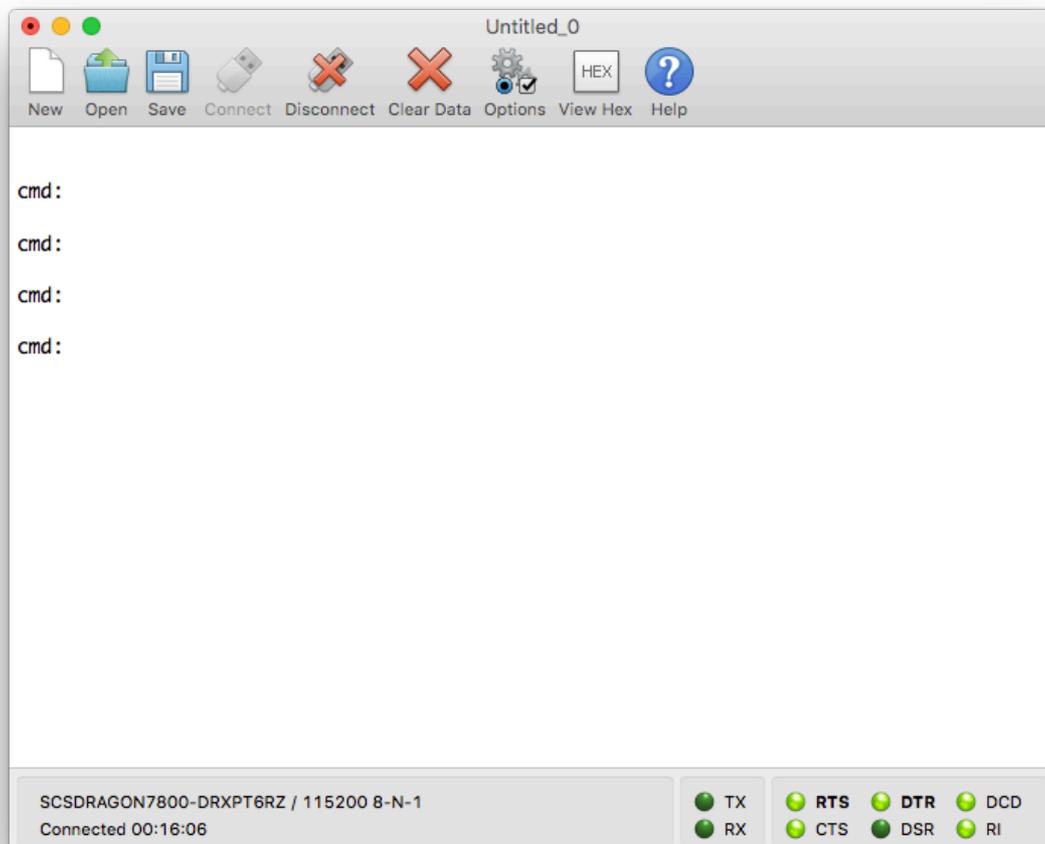
Check "Local Echo".

Check "Handle BS and DEL Characters".

Check "Handle Bell Character".

Click Ok.

Now you can click on Connect from the tool bar. After pressing the Enter key you should see the typical cmd : from the modem. For an appropriate reaction of the Tracker / DSP TNC you should press the ESC key.



Technical information

This driver is a customized version of the FTDI OS X USB driver version 2.2.18 see <http://www.ftdichip.com/Drivers/VCP.htm>

Despite the fact that this driver is specified only for OS X 10.3 to 10.8 by FTDI it runs perfectly up to macOS 10.13.3.

SCS

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