

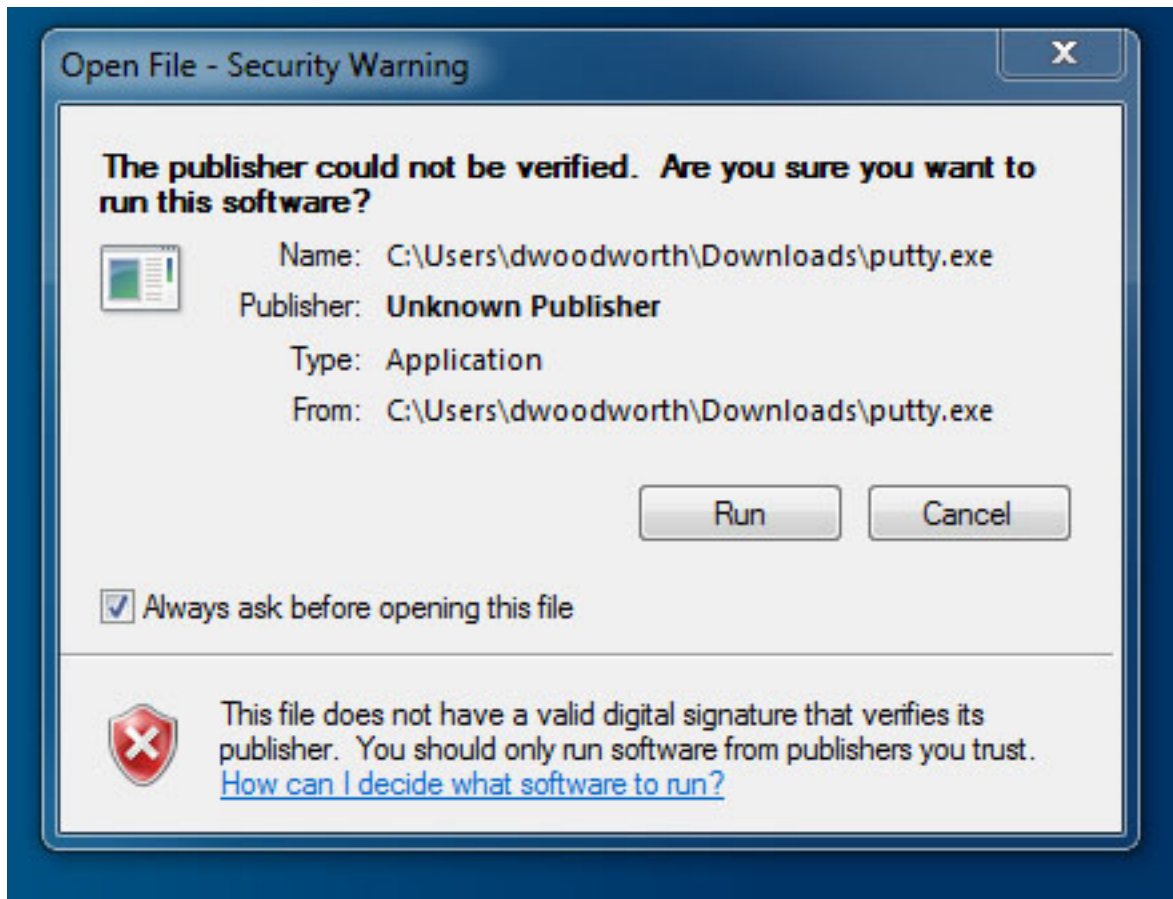
**Terminal Program PuTTY Detailed Instructions
for sending XDS Receiver commands
(Customized for Moody-1 Primary C-Band feed on SES-2)
04-18-2016**

Here are a series of computer screenshots showing how to use PuTTY to set up and begin a Telnet session with an XDS-PRO1Q satellite receiver.

On the PC, download the free terminal program Putty:

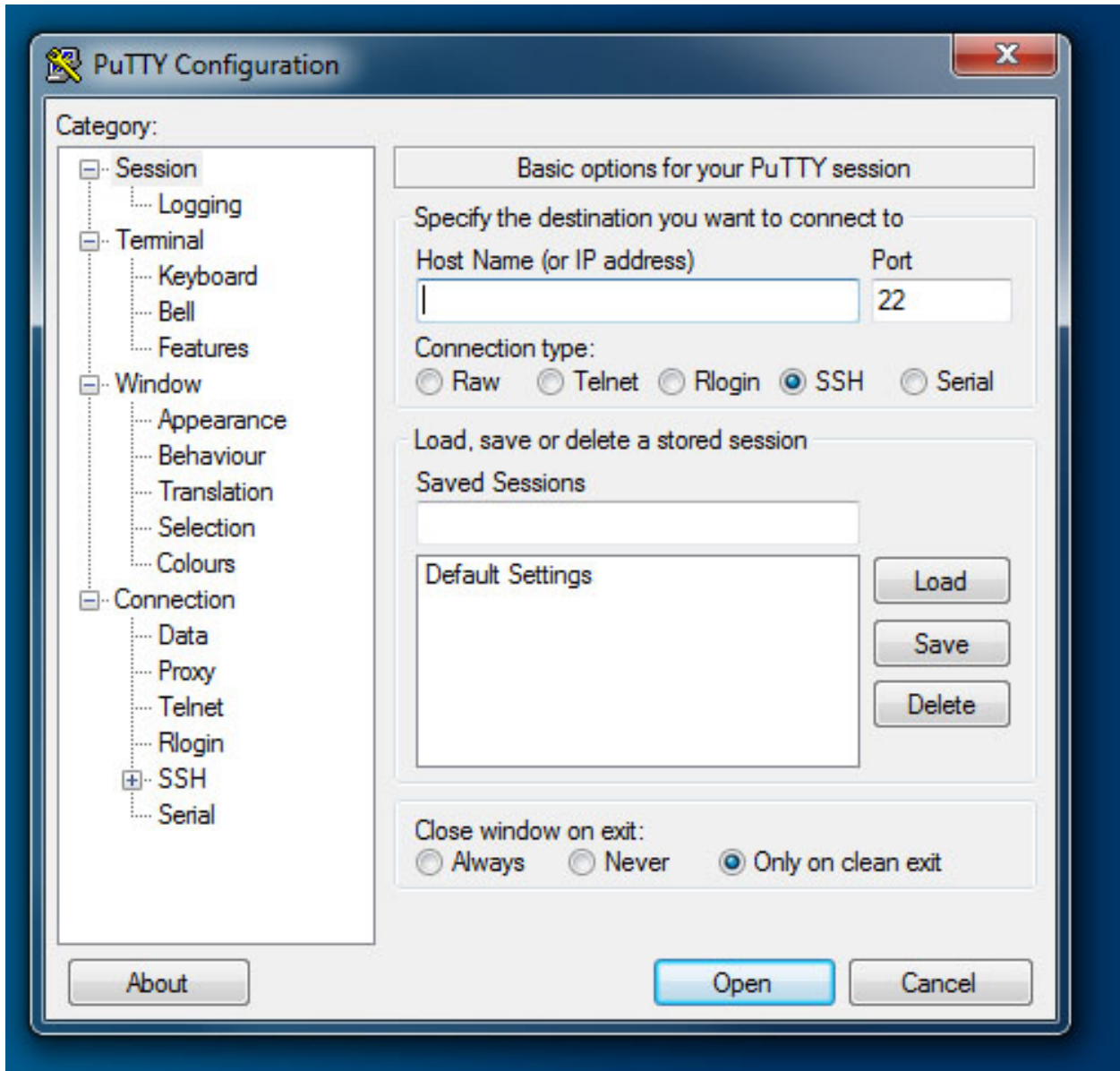
(<http://the.earth.li/~sgtatham/putty/latest/x86/putty.exe>)

Under Step 2 after you've downloaded PuTTY, from your Downloads folder, launch PuTTY by double clicking "putty.exe" and then you will see the Terminal Interface window that looks like the following sample screenshot:



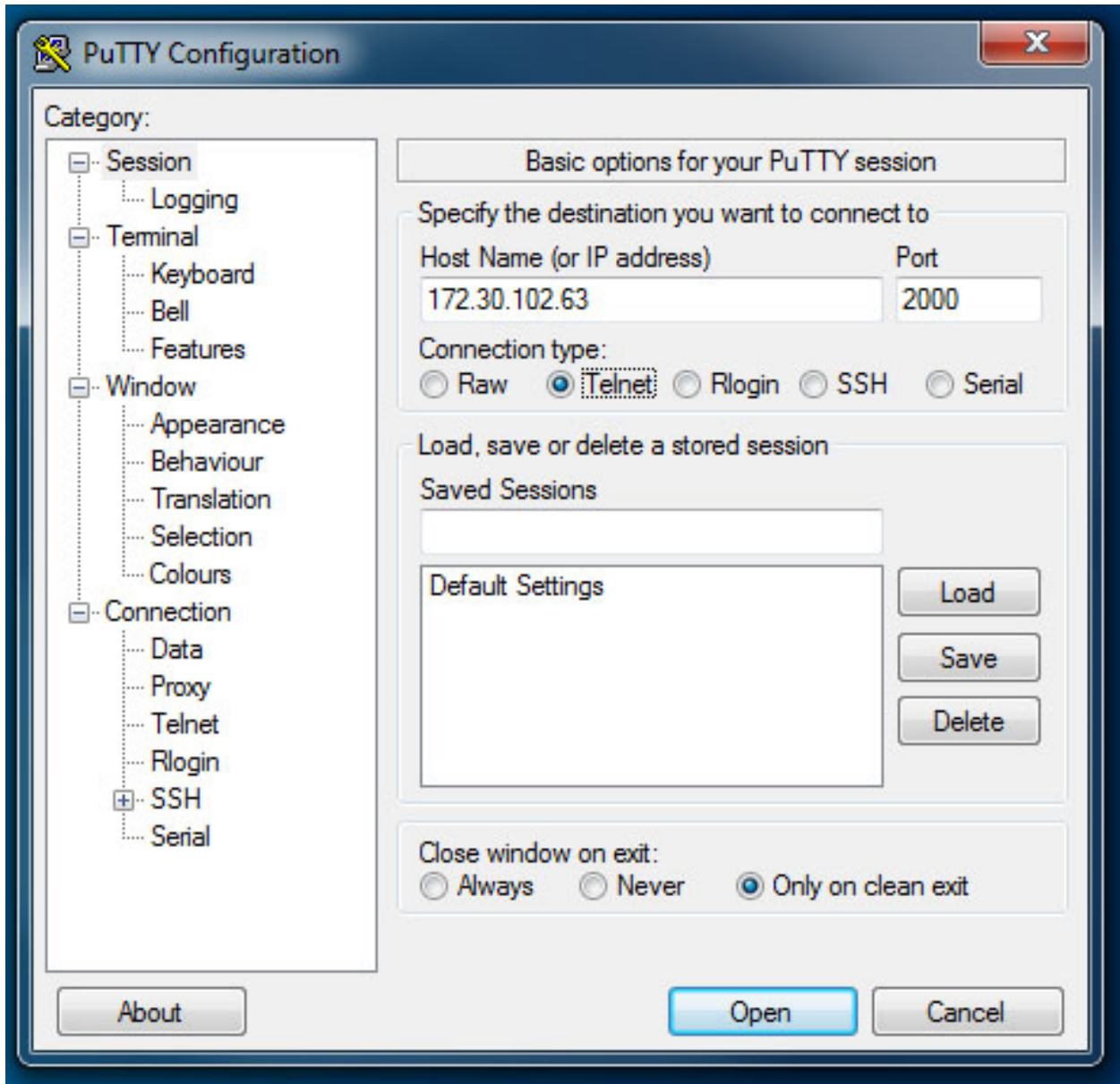
Left click the "Run" button. You will then see the following view of the PuTTY Configuration screen:

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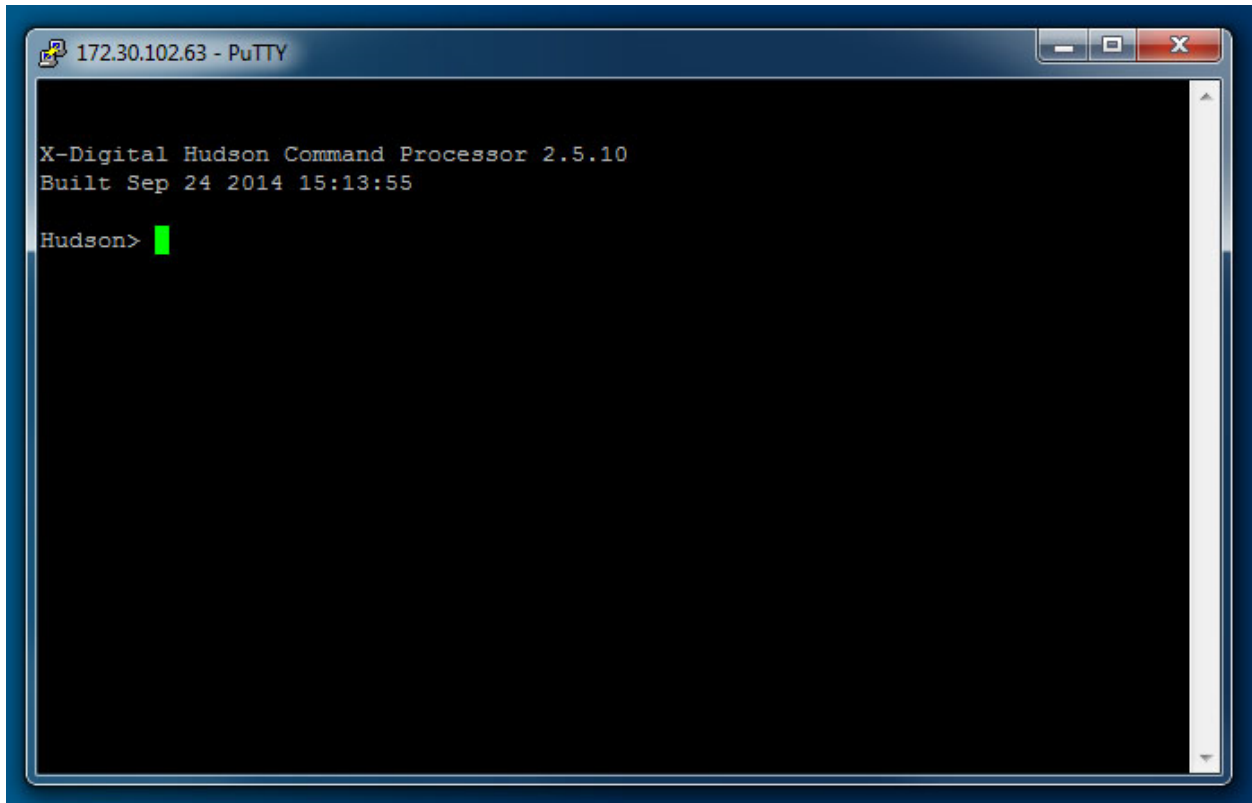
Under Host Name (or IP address) enter the receiver’s IP address. Type in “2000” under the Port window. Also be sure to left click the radio button in front of “Telnet.” The screen should like something like this:

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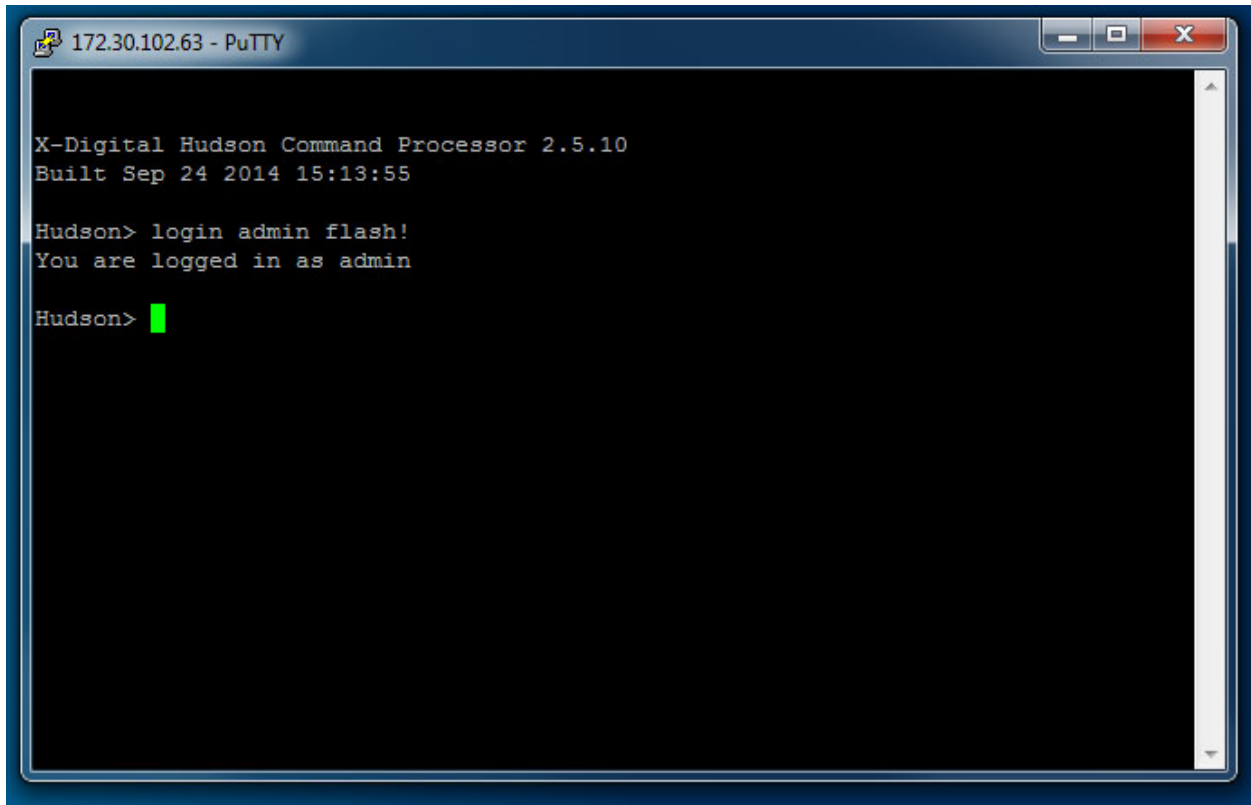
Now you can click the “Open” button, which will produce a view like this:

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The Hudson> prompt is where you type in the commands from this point on. To login to the receiver, type "login admin flash!" and it will produce this screen view:

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```
172.30.102.63 - PuTTY
X-Digital Hudson Command Processor 2.5.10
Built Sep 24 2014 15:13:55

Hudson> login admin flash!
You are logged in as admin

Hudson> █
```

As you can see, you now should have received a login confirmation as admin. Now you can send commands to the receiver as noted in the instructions beginning with Step 4. The following commands will configure the XDS-PRO1Q receiver for the Moody-1 satellite being transmitted via C-Band on SES-2:

Tuner Set 1317550 4710000

TUNER SHOW (should show what you entered above)

PORT PID A 1200

PORT STATUS (should show what you entered above)

TUNER FBC CLEAR

TUNER SHOW (should show what you entered above)

5) When connected to the SES-2 downlink dish, the receiver should lock on the signal within about one minute

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On April 1, 2013 Moody Radio completed a transition to the new Pico Digital XDS-PRO satellite receiver system. On March 2, 2015 some carrier changes resulted in the following network configuration details:

C-Band Satellite: SES-2 (used to be known as AMC-3)

Transponder: 17 Downlink is Horizontally polarized

X-Digital receivers for Moody Radio should be tuned to:

- L-Band receive frequency: 1317550 kHz
- Symbol Rate: New: 4710000 sps
- FEC (Forward Error Correction): $\frac{3}{4}$
- Audio Sample Rate: 480000 kHz

Notes:

Your XDS-PRO receiver must be connected to a full-time internet connection

Please refer to the Quick Start Guide for installation instructions.

Affiliate Web Site:

To set password, time zone, and other receiver default settings

To set up receiver program schedule, relay closures, and other features

<http://myXDSreceiver.picodigital.com>

URL for the Discovery Tool:

Download the Discovery Tool to help you find your XDS-PRO in your network and access your receiver's Web Interface the first time

<http://myxdsreceiver.picodigital.com/aff/discovery.html>

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Special Configuration for Moody Receivers

Moody Radio XDS-PRO receivers are pre-configured with the following required settings:

- + **Tuner settings** - Set to Moody Radio carrier so your receiver can lock automatically without manual configuration.
- + **Network Information Table** – Set to listen to the X-Digital platform in-band control channel.
- + **Audio Sample Rate** – Set to 48 KHz, otherwise your audio may sound slow or jerky.
- + **Initial Default Audio Port Settings** – “Audio A” is set to the Moody 1 channel, and if you have a 4 port receiver, “Audio B” is set to the Moody 2 channel. SRN News is set to both “Audio C” and “Audio D” outputs, which are both dual mono outputs with hourly newscasts on the left channel and full-form news programming on the right channel. Use of either “Audio C” or “Audio D” will require special wiring to either left or right outputs. The hourly SRN newscasts are also on “Audio A” as a part of the normal Moody Radio Network program schedule.

To Manually Configure These Settings

Enter the following commands through the Console port or via TELNET session to the XDS-PRO receiver. The Quick Start Guide contains information on how to connect to these interfaces.

```
TUNER SET 1317550 4710000
```

```
PSI NIT 42
```

```
DSP SR 48000
```

If receiver is an XDS-PRO1Q

```
PORT PID A 1200 (Moody Radio Network)
```

If receiver is an XDS-PRO4Q

```
PORT PID B 6D2 (Moody 2)
```

```
PORT PID C FFD (SRN News Hourly Newscasts on left channel output only)
```

```
PORT PID D FFD (SRN News long-form special programming on right channel output only)
```

For Technical Assistance Contact:

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Your Network Technical Services: Moody Radio Network

Contact : Dave Woodworth

Phone: 312-329-4435

Email: xdssupport@moody.edu

(Change made on 04-13-2016: Center frequency for CRC carrier changed from 4043.425 MHz to 3832.450 MHz. The corresponding IF Frequency for the XDS-PROQ satellite receiver input went from 1106570 kHz to 1317550 kHz. A previous change on 02-17-2016 for the PID for Moody-1 changed from "4FC" hexadecimal to "1200" hexadecimal.)