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## Connecting to the Internet with Bluetooth and the Motorola V710

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Section: Technology

Published: August 28, 2004 at 08:55:22 AM

*Accessing Verizon's National Access using the Motorola V710's built-in Bluetooth and Mac OS X is a relatively simple and painless process. As long as you've got a V710 and Bluetooth-equipped Mac, you're on your way to checking your email and surfing the web from your seat at the local coffee shop. To save everyone the time spent tinkering, here are the steps I took to get connected.*

### About National Access

Probably the first question on your mind when you first read about connecting to the Internet using your cell phone is whether this access is going to cost you anything. As with most questions concerning a wireless phone contract, the most honest answer is that it depends on your contract. The only folks who can give you a definite answer on this are employees of your wireless provider. Unfortunately for me, I've received conflicting information from Verizon employees. One gentleman told me that I'd have to pay for Verizon's data service to use National Access for anything other than text and picture messaging. Other folks have indicated that if National Access is listed as one of my Enhanced Services on my monthly statement, then I can use National Access and have it take away my minutes as if I were placing a normal voice call. I've used National Access and had no mysterious charges appear on my account, but in the end, the choice and any ensuing consequences rest squarely in your hands.

In terms of the speed of National Access, actual data transfer rates are faster than a 56K modem but noticeably slower than my home broadband connection. The biggest problem with transfer rates is the absolutely staggering latency. Ping reveals that I'm experiencing delays averaging 800 milliseconds on each packet of data. This makes National Access seem much slower than the data transfer rates

### About the Author

Rusty Haskell is a computer programmer at the University of Florida Registrar's Office. He lives in Gainesville with his wife Allyson and enjoys punk rock, dark-roasted coffee, and Unix-based operating systems. Rusty is Bactroid.net's patron and resident code ninja.

Rusty maintains an [online journal](#) in the Bactroid.net ChangeLog system.

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might lead you to believe. You're not going to be playing Halo or Worlds of Warcraft on your data connection, but checking your email and posting to your blog are well within the realm of possibility.

## Setting Up Your Connection

In order for your phone and computer to communicate with each other over Bluetooth, you have to acquaint them with each other in a process called "pairing". Starting the pairing process is pretty painless in OS X. Simply fire up System Preferences and select the Bluetooth panel. There should be a button in that panel that reads simply "Set Up New Device". Click that button to launch the Bluetooth Setup Assistant. Indicate that you're pairing a mobile phone, but before you click Continue, we need to ensure that your phone has Bluetooth turned on and is in discoverable mode.

From your V710's desktop, open the menu by clicking the top middle button. Select option number 7, "Settings" and then the option that says "Connection". You're interested in "Bluetooth Link" and then the "Setup" option. Ensure that Bluetooth is on by setting the "Power" option to "On". Once you've done that, click the "Find Me" option to make your phone discoverable for the next minute. Having done this, go ahead and click the continue button in OS X's Bluetooth Setup Assistant. Your phone should immediately show up on the list of devices as "Motorola Phone". Select this device and click continue. The Bluetooth Setup Assistant will give you a passkey to enter into your phone, and your V710 should ask if you want to bond with your computer. Answer yes and enter in the appropriate code.

The only options that the V710 currently allows via Bluetooth involve connecting to your wireless provider for Internet access. Select the "Access the Internet with your phone's data connection" check box, and then select the "Dial a specific access number for your Internet Service Provider" option. This may seem counter-intuitive since National Access is, in fact, a 1xRTT network, but this is the only way to dial the appropriate numbers to sign on to National Access and relay your password.

In the ensuing dialog box, you must enter your ISP information. In the username field, type your ten-digit Verizon phone number with no dashes and the domain "vzw3g.com". So, if your phone number were (123)555-1984, then your username would be:

1235551984@vzw3g.com

For your password, enter the string "vzw" (without the quotes), and the phone number you should dial is "#777". Modem script required a bit of experimentation.

The first one that worked for me was the "3Com Impact Analog 14.4", and it seems with a bit of searching that others have found this to be true as well. Recent OS X updates, however, seem to have rendered that modem script useless and unworkable. I've found that "Sprint PCS Vision" works like a charm, however. Click the continue button and then quit to finalize your settings.

To connect to the Internet, just open Internet Connect and select the Bluetooth icon from the menu bar. You should see the ISP info that you entered into the Bluetooth Setup Assistant. Just click connect and watch the magic happen.

## Another Login Option

Don't have National Access enabled on your account or live in an area where 1xRTT isn't available? Depending on your area, you might also have access to Verizon's older Quick2Net connection. This method of connecting gives data rates roughly equivalent to a 14.4 modem—significantly slower than the National Access 1xRTT connection. Also, Verizon has indicated that it will eventually go away as more areas get equipped to handle National Access, but for the time being, it offers a painfully slow opportunity to check your email. Just setup your phone following the above steps, but use the username "qnc" and the password "qnc". Several readers have also indicated that in order to use Quick2Net, you'll also need to add the following string to your modem initialization script:

```
write "AT$QCMDR=2\13"
```

Special thanks to Steven Sather for being the first to provide the actual text to add to your initialization script to make Quick2Net work properly.