

A Note from the Publisher

A reviewer sent in a notification that the figures in Chapter 5 were out of order. Upon further investigation, we agree.

Here are the corrected figures for Chapter 5. Figures 5-3 through 5-5 (pp. 82-84) and Figures 5-6 through 5-8 (pp. 89-91) can be downloaded here in the correct order.

We apologize for any confusion this may have caused.

Apress

Bluetooth for Java

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Figure 5-3. The application starts, and is now looking for remote Bluetooth devices.

Once it finds another device, it goes into nondiscoverable mode, as shown in Figure 5-4.



Figure 5-4. After a remote device is found, we now go into stealth mode (i.e., nondiscoverable).

In this example, we're using the J2ME Wireless Toolkit configured with the Atinav Bluetooth SDK. The Bluetooth device that we're using is a TDK USB module, as shown in Figure 5-5.



Figure 5-5. The TDK USB Bluetooth device using a CSR Bluetooth radio

The code for this example is shown in Listings 5-1 and 5-2.

Listing 5-1. Stealth.java

```
import javax.microedition.midlet.*;
import javax.microedition.lcdui.*;
import javax.bluetooth.*;
import java.io.*;
import java.util.*;
import javax.microedition.io.*;
import com.atinav.bcc.*;

/* The Timer and the BeamTsk class is used to create the beam of
 * 3 concentric circles blinking. It has no purpose except visual enhancement.
 */

public class Stealth extends MIDlet {
    private Display display;
    private GUI canvas;
    private Timer tm;
    private BeamTsk tsk;
    private String dev;
    private RemoteDevice device[];

    public Stealth()
    {
        display=Display.getDisplay(this);
        canvas=new GUI(this);
        tm=new Timer();
        tsk=new BeamTsk(canvas);
        tm.schedule(tsk,1000,1000);
    }
}
```

The algorithm for this example is pretty simple. First, the MIDlet creates a form and displays it with buttons labeled Search and Exit (see Figure 5-6).



Figure 5-6. The initial screen for the Piconet Browser application

After pressing the Search button, the application performs a device discovery, and displays the search results (see Figure 5-7).



Figure 5-7. The Piconet Browser displays a list of Bluetooth devices in the area.

After you select a Bluetooth device, the application will display the services that it offers (see Figure 5-8).



Figure 5-8. The Piconet Browser now displays the services offered by the remote device.