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## [Access Your Mobile Phone Through USB Cable](#)

*Manage files on your mobile phone memory and card.*

**OBEX** (abbreviation of Object EXchange, also termed IrOBEX) is a communications protocol that facilitates the exchange of binary objects between devices. It is maintained by the Infrared Data Association, but has also been adopted by the Bluetooth Special Interest Group and the SyncML wing of the Open Mobile Alliance (OMA). **OpenOBEX** is an open source implementation of the Object Exchange (OBEX) protocol. This protocol is optimized for ad-hoc wireless links and can be used to exchange all kinds of objects like files, pictures, calendar entries (vCal) and business cards (vCard). OpenOBEX supports the following **links**: IrDA; Bluetooth; USBFor a list of **supported devices**, click [HERE](#) and select your phone manufacturer from the left menu. If you found your phone model on the list, you may carry on with this guide.**Installing OpenOBEX**To manage files on your mobile phone, you'll need two applications: *OpenOBEX* and *ObexFTP*. You can either try to install it using your package manager (yum, apt-get etc) or, download the sources from Softpedia: [OpenOBEX](#) and [ObexFTP](#). If you decide to install them from sources, you will need to have the following packages installed on your system: *gcc make automake1.4 autoconf libusb-dev libtool*. Finally, follow these steps:**OpenOBEX**:

```
[CODE=0]$ mkdir ~/usbobex$ tar xzf openobex-1.3.tar.gz$ cd openobex-1.3$ ./configure --prefix=$HOME/usbobex --enable-apps$ make$ make install[CODE=1]
```

**ObexFTP**

```
[CODE=0]$ bzip2 -cd obexftp-0.20.tar.bz2 | tar xf - $ cd obexftp-0.20$ ./configure$ make$ sudo make instal[CODE=1]
```

**Set UDEV permissions**- Open a terminal and type **lsusb**.- Look for a line similar to this:*Bus 001 Device 005: ID 0421:0428 Nokia Mobile Phones*- In this example, 0421 is the VendorID, while 0428 is the ProductID.- Add the following line to */etc/udev/rules.d/40-permissions.rules* in **Ubuntu**:*BUS=="usb", SYSFS{idVendor}=="VendorID", SYSFS{idProduct}=="ProductID", GROUP="plugdev", USER="yourUserName"*- Replace VendorID, ProductID and yourUserName with the correct values.**Using ObexFTP**- Open a terminal and type:

```
[CODE=0]$ ~/usbobex/bin/obex_test -u[CODE=1]
```

Your should see something like:

```
[CODE=0]Using USB transport, querying available interfaces
Interface 0: Nokia Nokia 6230i (null)
Interface 1: Nokia Nokia 6230i (null)
Interface 2: Nokia Nokia 6230i (null)[CODE=1]
```

**Listing directories**:(Run command as normal user with Ubuntu and as root with everything else)

```
[CODE=0]$ obexftp -u 1 -l[CODE=1]
```

**-u 1** connects to interface 1, while **-l** will list directories and files in the root directory.**Downloading files**Let's say we want to get *011.mp3* from the *Music files* directory:

```
[CODE=0]$ obexftp -u 1 -c 'Music files' -g 011.mp3[CODE=1]
```

**Uploading files**To upload *file.txt* from Desktop to *Documents* directory on the phone:

```
[CODE=0]$ obexftp -u 1 -c 'Documents' -p path/to/Desktop/file.txt [CODE=1]
```