

# Newton Connection User's Manual for Mac OS X

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# Getting Started

This chapter describes how to connect your Newton personal digital assistant (PDA) to your computer, install Newton Connection, and use the utilities to create your first backup.

## **About Newton Connection**

With Newton Connection, you can connect your MessagePad or other Newton device to your computer and do the following:

- Back up Newton information and store it on your computer.
- Install packages (applications, system updates, and so on) on your Newton device.
- Use your computer's keyboard to enter information on your Newton device.
- Import information from your computer to your Newton device and export information from your Newton device to your computer.

Newton Connection works with the Newton 2.0 operating system or later version. If you have a Newton device that uses an earlier version of the Newton operating system, you should use the Newton Connection Kit 2.0 instead of Newton Connection.

# **Installation requirements**

To use Newton Connection, you need the following:

- A computer using the Mac OS X operating system version 10.4 or higher
- a USB to serial adapter and a serial cable or
- a networking PC card for your Newton device, access to your local network via a router and an ethernet cable or
- a wireless networking PC card for your Newton device and access to your local network via a wireless router

# Connecting a Newton device to your computer

To use Newton Connection, you connect your Newton device to your computer in one of the following ways:

- using a USB to serial adapter and a serial cable
- using an ethernet network and an ethernet PC card in your Newton device
- using an 802.11b wireless network and a wireless PC card in your Newton device

# Connecting with a serial cable

You use a serial cable to connect your Newton device to a serial adapter such as the Keyspan USA-28X, which is in turn connected to a USB port on your computer. Follow the instructions that came with your USB to serial adapter to install any necessary software on your computer.

To connect with a serial cable:

- Plug one end of the serial cable into the communication port on your Newton device. If you have a MessagePad 2000 or 2100 you will need a Newton Serial Adapter between the serial cable and the InterConnect port.
- 2 Plug the other end of the serial cable into the USB adapter connected to your computer.

That's it! Go on to "Installing Newton Connection," later in this chapter.

# Connecting over an ethernet network

Use an ethernet PC card such as the 3Com 3CXE589ET installed in your Newton device to connect to an ethernet network. You will need to install the Newton Internet Enabler (NIE) and possibly a separate driver for your card. See the WikiWikiNewt (http://tools.unna.org/wikiwikinewt/index.php/ EthernetDrivers) for further information.

To connect with an ethernet cable:

1 Plug the ethernet cable into a router or other device that provides access to your local network.

You can not connect your Newton device directly to your computer using ethernet.

- 2 Insert the ethernet PC card into your Newton device.
- 3 Plug the ethernet cable into the card.

That's it! You've connected your Newton device to your computer on an ethernet network. Go on to "Installing Newton Connection," later in this chapter.

# Connecting over a wireless network

Use an 802.11b wireless PC card such as the NetGear MA401 installed in your Newton device to connect to a wireless network. You will need to install the Newton Internet Enabler (NIE) and possibly a separate driver for your card. See the WikiWikiNewt (http://tools.unna.org/wikiwikinewt/index.php/WiFi) for further information.

To connect to a wireless network:

1 Insert the wireless PC card into your Newton device.

That's it! You've connected your Newton device to your computer on a wireless network. Go on to the next section.

# **Installing Newton Connection**

Before your computer can communicate with your Newton device, you need to install Newton Connection on your computer. Follow these steps.

1 Open the Newton Connection distribution folder.

2 Drag the NCX icon to a folder on your hard disk. Applications are usually kept in the Applications folder, but you can place NCX in any folder.

# **Preparing your computer**

To prepare your computer for communication with a Newton device, follow these steps.

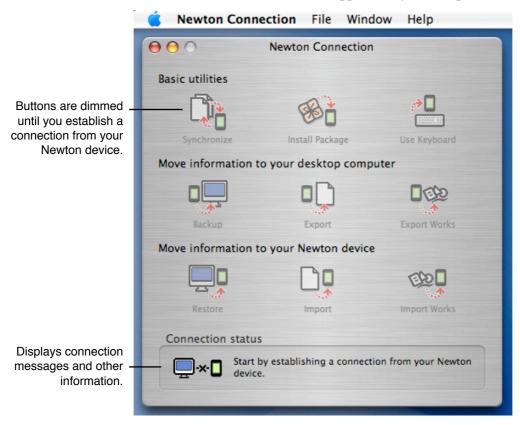
# **Opening Newton Connection**

To open the utilities:

• On your computer, double-click the NCX icon.



The Newton Connection window appears on your computer.



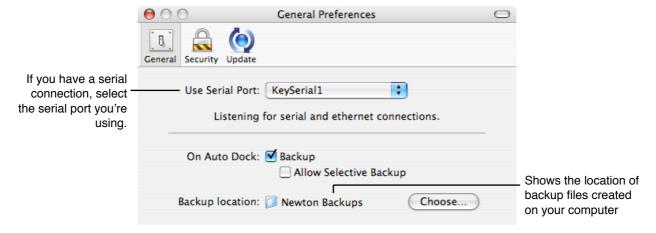
# Selecting the type of connection on your computer

If your USB to serial adapter provides more than one serial port, the first time you use Newton Connection with a serial connection you need to specify how the Newton device is connected to your computer.

1 Choose Preferences from the Newton Connection menu.

A dialog box appears with the serial port connection preference for your computer.

## 2 Select the serial port.



# 3 Close the dialog box to save your choice.

The serial port you select is saved and remains set until you decide to change it.

*Note:* You should use the Preferences dialog box to change the location of backup files. See "Changing the Location of the Backups Folder" in Chapter 2.

# Using higher serial speeds

Newton Connection can use serial speeds higher than the 38,400 bps provided by the Newton Dock application. To achieve this, however, you need to modify both ends of the communications link.

Newton Connection has no user interface to do this, so to prepare for a serial speed of 115,200 bps, enter the following line into the Terminal application: defaults write com.newton.connection BaudRate -int 115200

Alternatively you can edit ~/Library/Preferences/com.newton.connection.plist and add a BaudRate property of class Number with a value of 115200.

To enable the Newton Dock application to use the faster speed you will need to install a package on your Newton device. See "Connecting at higher serial speeds" in the next section.

It is essential that both ends of the serial connection use the same speed.

## Allowing ethernet access

Before you can use Newton Connection over ethernet, whether wired or wireless, you need to ensure that your firewall is not blocking access.

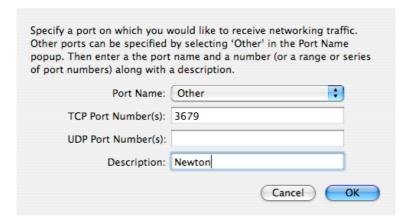
# 1 Launch System Preferences.

The System Preferences dialog box appears.

# 2 Click the Sharing icon and then the Firewall tab within the panel that appears.

The Firewall dialog appears. If your firewall is off, close System Preferences and go on to the next section.

3 Click the New... button and fill in the fields that appear to allow access to TCP port 3679.



3 Click OK to save your setting, then quit System Preferences.

# **Preparing your Newton device**

Before you use Newton Connection, you need to tell your Newton device how it is connected to the computer.

**IMPORTANT** Make sure you follow the setup instructions on your Newton device to enter your name and other owner information. The computer uses this name when it creates a backup file. See your Newton device handbook to learn how to enter your name. Also, it's a good idea to name the storage cards you use with your Newton device.

# Connecting at higher serial speeds

To enable the Newton Dock application to use higher serial speeds you will need to install a package such as Ser115200.pkg on your Newton device. This package adds an extra connection type to the list that appears when you tap the Connect via item in the Newton Dock slip. See "Selecting the type of connection on your Newton device" later in this section.

# Connecting via ethernet

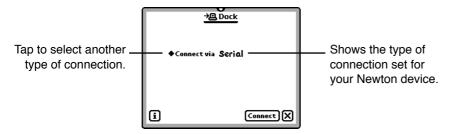
Before you can use ethernet, either wired or wireless, to communicate with Newton Connection, you need to install a package such as EthernetDock.pkg or Dock\_TCP-1.2-en.pkg, as well as the Newton Internet Enabler, on your Newton device.

# Selecting the type of connection on your Newton device

- 1 On your Newton screen, tap Extras.
- 2 In the Extras Drawer, tap Dock.

You may have to show all icons to see the Dock icon. (Tap the Extras folder tab and then tap All Icons.)

A slip appears showing the type of connection currently set for your Newton device.

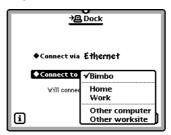


If the type of connection that appears in the slip is not correct, tap "Connect via" to change the type of connection.

A list of connection types appears.

If you choose Serial, your connection setup is complete; skip to the next section, "Establishing a Connection." If you choose Ethernet, continue with step 4.

# 4 Tap "Connect to."



5 In the list that appears, tap the computer you want to connect to.

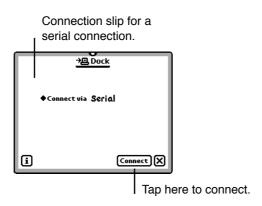
If you tap "Other computer" a slip appears. Tap the computer you want to connect to. Only computers that have Newton Connection installed and running appear in the slip.

The type of connection you select is saved and remains set until you change it.

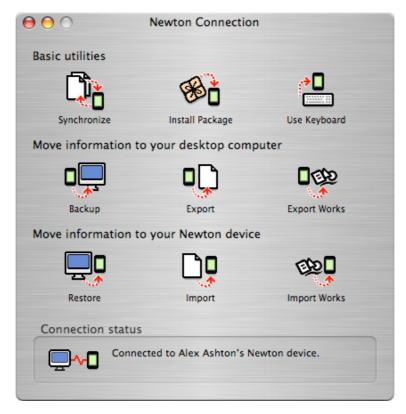
# **Establishing a connection**

After you select the type of connection, you need to establish a connection between your Newton device and your computer.

# • Tap Connect.



After a few moments, the connection is established and the buttons in the Newton Connection window are no longer dimmed.



In addition, Newton Connection buttons appear on your Newton screen.



As with the Newton Connection buttons on your computer, you can use these buttons to select a utility.

*Note:* For simplicity, the instructions in this book describe using Newton Connection from your computer, but you can also start the utilities from your Newton device. See Chapter 9 for more information.

# **Creating your first backup**

After you establish a connection, you can make a backup of information and packages on your Newton device and store it on your computer.

Backing up your Newton device provides a safe way to store information in case it gets lost or deleted by mistake. Also, it's a good idea to back up your Newton device before you import, export, or synchronize information.

To create your first backup:

1 Click the Backup button in the Newton Connection window.



Newton Connection gathers information about what can be backed up from your Newton device, and after a few moments a slip appears over the Newton Connection window allowing you to choose what should be backed up.

Because this is your first backup, you should leave all items checked and click Backup so that Newton Connection creates a full backup of all your Newton information and packages. If you have a storage card inserted in your Newton device, information on the storage card is also backed up.

During the backup, a status window appears on your computer screen to show what information is being backed up.

After a few minutes, the window disappears and the backup is complete.

### 2 Check to see the Newton Backups folder on your computer.

When you back up your Newton device, a backup file is created and placed in a folder named Newton Backups. By default, this folder is located in your Documents folder.

For more information about backup files and folders, including how to change the location of the Newton Backups folder, see Chapter 2.

# Setting a connection password

If desired, you can set a connection password for Newton Connection. This password prevents others from using Newton Connection without your permission.

The password you set works for all types of connection.

To set a connection password:

# 1 If necessary, open Newton Connection and choose Preferences from the Newton Connection menu.

The Preferences dialog box may already be open on your computer.

### 2 Click the Security icon.

The Security preferences panel appears.



# 3 Type the new password.

### 4 Close the Preferences window.

The next time you establish a connection between your Newton device and your computer, a prompt appears on your Newton device asking you to enter your desktop connection password.

*Note*: The password you enter for Newton Connection is not the same as the Personal Identification Number (PIN) you enter on your Newton device.

# **Checking for software updates**

Newton Connection can check the world-wide web periodically for newer versions of itself. This ensures you always have the most up-to-date version.

To set the frequency you want Newton Connection automatically to check for updates:

1 If necessary, open Newton Connection and choose Preferences from the Newton Connection menu.

The Preferences dialog box may already be open on your computer.

2 Click the Update icon.

The Update preferences panel appears.



- 3 Click the pop-up item and select a frequency from the list that appears.
- 4 Close the Preferences window.

Every time you launch Newton Connection, if an update check is due the Newton Connection web site is checked for a newer version. If one is available, a dialog box is shown allowing you to download it.

# **Quitting Newton Connection**

To end a connection and quit Newton Connection:

Choose Quit from the Newton Connection menu on your computer screen.

The connection is ended and the Newton Connection window disappears.

You can also end a connection from your Newton device by tapping the close box  $\boxtimes$  next to the Newton Connection buttons.

# Backing Up and Restoring Information

The previous chapter described how to use Newton Connection to create your first backup. This chapter describes how to do additional backups and how to restore information you've backed up.

# **About backup files**

It's important to back up your Newton information. Backup files provide a safe way to store information in case it gets lost or deleted by mistake.

With Newton Connection you can back up all information on your Newton device (including any storage cards you've inserted) or just selected information. The information is stored in a folder named Newton Backups.

Inside the Newton Backups folder is a file with a name derived from the owner's name you entered on your Newton device. This file contains the latest backup information. If you haven't entered an owner's name on your Newton device, the file is called Newton device.

By default, the Newton Backups folder is located in your Documents folder. You can change the location of this folder. See "Changing the Location of the Backups Folder" later in this chapter.

# **Backing up cards**

When you back up a storage card, a separate backup file is created with the name of the card. If you haven't entered a name for your card, the file is called Card. If you back up more than one unnamed card, the backup files are named Card, Card 2, Card 3, and so on.

*Note:* It's recommended you name all your storage cards. For more information on naming storage cards, see the handbook that came with your Newton device.

# **Previous backups**

Every time you back up, Newton Connection makes a copy of the previous backup file and store it in a folder called Previous Backups. This folder is located in your Newton Backups folder.

For example, if the owner's name for your Newton device is Alex Ashton, Newton Connection creates a file named "Alex Ashton's Newton device" the first time you back up. The next time you back up, Newton Connection copies the original file and places it in a Previous Backups folder.

Newton Connection maintains a current and previous backup file for all information in your Newton PDA's internal memory and a current and previous backup file for each storage card you back up.

# **Creating backup files**

You can back up all information and packages on your Newton device or you can just back up selected information and packages. The following section describes how to back up all information. To back up selected information and packages, see "Backing Up Selected Information and Packages" later in this chapter.

# Backing up all information and packages

Before you begin, make sure your Newton device is connected to your computer. For instructions, see Chapter 1.

To back up all information on your Newton device:

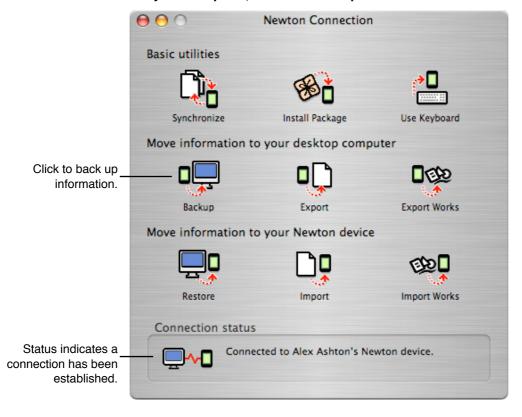
1 On your computer, open Newton Connection.

To open Newton Connection, double-click the Newton Connection icon.

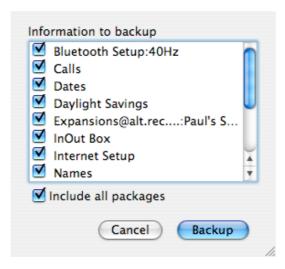
2 Establish a connection from your Newton device.

See Chapter 1 for instructions.

3 On your computer, click the Backup button.



A slip appears over the Newton Connection window with a list of items to back up. Initially, all the items are selected. To deselect an item, click the box next to it so you don't see a  $\sqrt{}$ .



- 4 If available, make sure "Include all packages" is selected so that your packages are also backed up.
- 5 Click Backup.

The selection sheet disappears and the status box in the Newton Connection window indicates a backup is in progress. Messages in the status box show what information is being backed up.

The backup status indicator disappears when the backup is complete.

# Backing up selected information and packages

In general, it's a good idea to back up all information on your Newton device. However, if you've only added information to one or two applications, you can specify which applications and application information should be backed up. For example, you can just back up information in your Newton Dates application.

Typically, selective backup is faster than backing up all information and packages. But when you selectively back up information, only the items you select are added to your most recent backup file.

**WARNING** If you selectively back up, be careful when you restore information. You may remove information that has not been backed up. It's recommended you restore information only from a backup that includes all information and packages. See "Restoring Information and Packages" later in this chapter.

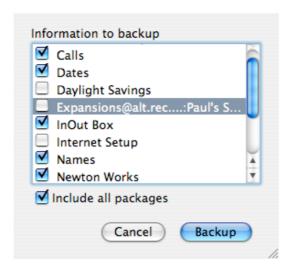
To back up selected information on your Newton device:

1 Open Newton Connection and establish a connection.

See Chapter 1 for instructions.

2 On your computer, click the Backup button.

A slip appears over the Newton Connection window with a list of information to back up.



# 3 Select the information to back up.

To select an item to back up, click the box next to it until you see a  $\sqrt{}$ . Only items marked with a  $\sqrt{}$  will be backed up.

# 4 Click Backup.

The selection sheet disappears and the status box in the Newton Connection window indicates a backup is in progress. Messages in the status box show what information is being backed up.

The backup status indicator disappears when the backup is complete. The newly created backup file holds only the items you selected.

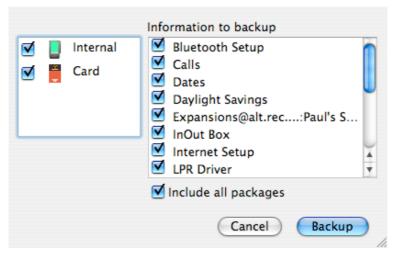
# Backing up a storage card

You can use Newton Connection to back up the contents of a storage card.

To back up a storage card:

- 1 Insert the storage card.
- 2 Open Newton Connection and establish a connection.
- 3 Click Backup.

The backup sheet appears. The left side of the sheet includes a list of cards currently inserted in your Newton device. To select an item to back up, click the box next to it until you see a  $\sqrt{}$ .



4 Make sure the card you want to back up is selected.

# 5 Click Backup.

The card is backed up and a backup file with the name of the card appears in your Newton Backups folder.

# Changing the location of the backup files

By default, backup files are automatically stored in the Newton Backups folder in your Documents folder on your computer.

To change the location of backup files:

- 1 Open Newton Connection.
- 2 Choose Preferences from the Newton Connection menu.

A Preferences window appears.



Click the General icon if the General Preferences panel is not shown.

3 Click Choose...

A slip appears over the Preferences window.

- 4 Select a new location for your Backups folder.
- 5 Click Choose.

The new location you specified is saved and the Preferences window disappears.

- 6 Establish a connection from your Newton device.
- 7 Click the Backup button and back up all information and packages on your Newton device.

For more information, see "Backing Up All Information and Packages" earlier in this chapter.

Backup files appears in the location you specified.

*Note:* To avoid confusion with previous backups, you may want to remove older backup files you've created in other locations or rename them.

# Restoring information and packages

If something goes wrong and you lose information on your Newton device, you can restore information from the latest backup file on your computer.

You can restore all information in a backup file or select which information you want to restore. You can also restore the information from storage cards you've backed up.

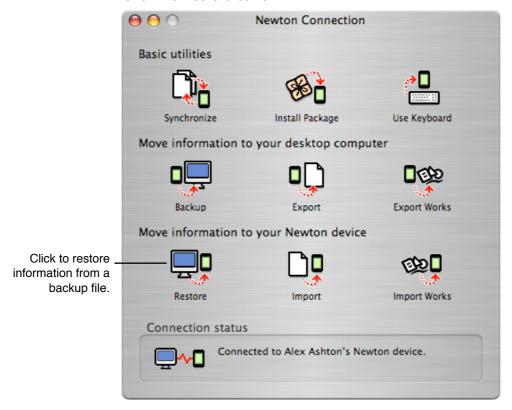
**WARNING** Restoring replaces information on your Newton device with information from a backup file on your computer. Make sure you select the correct information to restore.

Before you begin, make sure your Newton device is connected to your computer. For instructions, see Chapter 1.

To restore information:

### 1 Open Newton Connection and establish a connection.

# 2 Click the Restore button.



In the dialog box that appears, choose the file that contains the information you want to restore.

*Note:* With Newton Connection, you can restore information from a card backup file to a card. You cannot restore information from a card backup file to your Newton's internal memory.

**WARNING** If you selectively backup, be careful when you restore information. You may remove information that has not been backed up. It's recommended you restore information only from a backup that includes all information and packages.

# 4 Click Open.

You see a list of information that can be restored. You can choose items to restore or restore all the items. To select an item, click the box next to it until you see a  $\sqrt{}$ .

5 Select the items you want to restore.

### 6 Click Restore.

A message appears asking you to confirm that you want to restore information from your computer onto your Newton device.

### 7 Click OK.

Information you selected is restored to your Newton device. A status window on your computer keeps you informed of the progress.

When you restore, only information and packages on your Newton device that have corresponding information and packages in the backup file are replaced. For example, if your backup file contains Names and Dates and your Newton device contains Names, Dates, and Notes, the Names and Dates on your Newton device are replaced by Names and Dates from the backup file, but Notes remains intact.

When the restoration is complete, a message appears on your Newton screen asking you to restart.

# 7 Tap Restart.

Your Newton device restarts.

*Note:* If you have a personal identification number (PIN) assigned to your Newton device, the number is not restored. You'll need to reassign a PIN number. For more information on assigning a PIN number, see the handbook that came with your Newton device.

# Tips on managing backups

The following tips can help you back up and restore files on your Newton device.

- If you're using more than one computer, you can set up a central location for backup files. That way, you'll always know where the latest backup files are located. See "Changing the Location of the Backups Folder" earlier in this chapter.
- You can copy backup files and rename them (or store them in a separate directory) to prevent them from being replaced by another backup. This is useful for managing or storing different sets of information.

# Installing Packages

This chapter describes how to use Newton Connection to install packages. You can install packages on your Newton device or on a storage card.

# Installing a package on your Newton device

A package is a special file that adds features to your Newton device. Examples of packages include applications, electronic books, and system updates.

Before you begin, make sure your Newton device is connected to your computer. For instructions, see Chapter 1.

**IMPORTANT** The package you install is added to the information already on your Newton device. Nothing is erased.

To install a package:

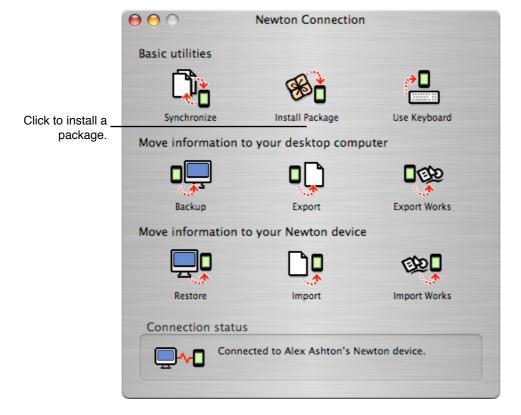
1 On your computer, double-click the Newton Connection icon.

The Newton Connection window appears on your computer.

2 On your Newton device, establish a connection.

See Chapter 1 for instructions.

3 Click the Install button.



# In the dialog box that appears, select the package you want to install and click Open.

The package is installed on your Newton device. A status window on your computer keeps you informed of the progress.

*Note:* If you stop a package installation, the connection between your Newton device and your computer is ended. You'll need to re-establish the connection from your Newton device.

# Installing packages by dragging

You can also install one or more packages by dragging package icons to the Newton Connection application icon on your computer desktop or onto the Newton Connection window.

To install a package by dragging:

- 1 Open Newton Connection and establish a connection.
- 2 Locate a package icon on your computer's hard disk.
- 3 Select one or more package icons.
- 4 Drag the icons to the Newton Connection icon on your desktop or onto your Newton Connection window.

# Installing a package on a storage card

You can install packages on a storage card rather than in your Newton device's internal memory.

To install a package on a storage card:

- 1 Insert the card in your Newton device.
- 2 In the slip that appears, select "Save new info and packages on this card."
- Follow the steps described in the previous section, "Installing a Package On Your Newton device."

With "Save new info and packages on this card" turned on, Newton Connection automatically installs packages on the storage card.

# 4

# **Using Your Computer's Keyboard**

This chapter describes how to use your computer's keyboard to enter information on your Newton device.

# **About keyboard entry**

With Newton Connection, text you type on your computer's keyboard can appear on your Newton device. For example, you can open a new Name slip on your Newton device and use your computer's keyboard to fill in the information.

Your computer's keyboard is useful when you need to enter long notes or a large number of names and addresses on your Newton device.

In addition to typing, you can copy text from documents open on your computer to your Newton device.

# Starting a keyboard session

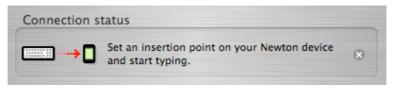
To start a keyboard session:

1 Open Newton Connection and establish a connection from your Newton device.

For instructions, see Chapter 1, "Getting Started."

2 Click the Keyboard button in the Newton Connection window.

The status box in the Newton Connection window shows what's happening and your Newton device is ready to accept information from your computer's keyboard.



3 On your Newton device, open the stationery or slip you want to add information to.

You can navigate as usual on your Newton device, using the pen to open drawers, set insertion points, and so on.

4 Begin typing on your computer's keyboard.

The text you type appears at the insertion point on your Newton device.

You can use all standard alphabetic and number keys on your keyboard to enter information on your Newton device. You can also use the Tab and Return keys to move between topics. Special keys, such as F1, are not supported.

While a keyboard session is active, you can open and close as many slips on your Newton device as desired, open or quit applications, and so on.

During a keyboard session, characters appear on your Newton device only when the Newton Connection window is active on your computer. If another window is active, characters you type appear on your computer and not on your Newton device.

# **Ending a keyboard session**

When you've finished entering information from the keyboard, you can end a keyboard session by any of the following methods:

- On your computer, click the Stop button in the status box.
- On your Newton device, tap the Dock button in the Extras drawer.
- Tap the blinking star (☆) at the top of your Newton screen and tap Dock. When a message appears asking whether you want to end your keyboard session, tap Yes.

# Copying text from a document

During a keyboard session, you can copy text from documents open on your computer to your Newton device.

To copy text from a document:

1 Open Newton Connection and start a keyboard session.

For instructions, see "Starting a Keyboard Session" earlier in this chapter.

- 2 Set the insertion point on your Newton device.
- 3 On your computer, select some text and drag it onto the Newton Connection window.

The text appears on your Newton device.

Note:

- Text is copied, but graphics are not.
- It may take a few seconds for large amounts to text to appear on your Newton device.

# 5

# **Importing Information to Your Newton Device**

This chapters describes how to import information from a file on your computer to an application on your Newton device.

# **About importing**

Newton Connection comes with translators that convert files created by desktop applications into information on your Newton device.

For a list of translators included with Newton Connection, see the Appendix, "Translators for Newton Connection."

**IMPORTANT** It's a good idea to make a backup of information on your Newton device before you import. For more information on backing up your Newton device, see Chapter 2.

# Choosing when to import

Typically, you import when you want to transfer a large amount of information from your computer and maintain the information on your Newton device. For example, you might have a list of customer names you want to add to your Newton Names application.

# **Importing**

# Importing a file

When you import information, Newton Connection looks at the file you're importing to determine which translator to use to convert the file. This section describes what happens when Newton Connection automatically recognizes which translator to use and which Newton application should receive the information.

The following section, "Importing an Unrecognized File," describes what happens if more than one Newton application can receive the information you're importing.

*Note:*Newton Connection examines the file extension to determine what type of data the file contains. For example, to import text the file must be named something.txt. Before you import, make sure the file you're importing is in a format supported by Newton Connection. See the Appendix for a list of file formats (translators) supported by Newton Connection.

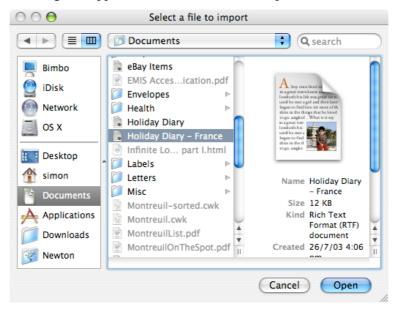
To import a file:

1 Open Newton Connection and establish a connection from your Newton device.

For instructions, see Chapter 1, "Getting Started."

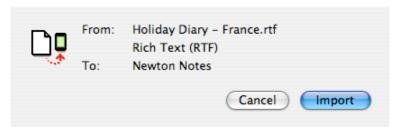
2 Click the Import button in the Newton Connection window.

A dialog box appears with a list of files to import.



## 3 Select a file to import and click Open.

The following slip appears over the Newton Connection window, confirming your selection and showing into which Newton application the file will be imported.



If the file you select can be imported into more than one Newton application, a dialog box appears asking you to select the type of application data you're importing. For more information, see "Importing an Unrecognized File," next.

### 4 Click Import.

The information is imported to your Newton application.

## Importing an unrecognized file

This section describes what happens if more than one Newton application can receive the information you're importing.

To import a file:

# 1 Open Newton Connection and establish a connection from your Newton device.

For instructions, see Chapter 1, "Getting Started."

### 2 Click the Import button in the Newton Connection window.

A dialog box appears with a list of files to import.

# 3 Select a file to import and click Open.

A dialog box appears with a list of Newton applications.

*Note:* This dialog box appears only if the information you're importing can be transferred to more than one Newton application. Otherwise, the appropriate Newton application is selected automatically.

- 4 If necessary, select the Newton application that you want to import to.
- 5 Click OK.

The Import dialog box appears.

# 6 Click Import.

The information is imported to your Newton application.

# 6

# **Exporting Information from Your Newton Device**

This chapter describes how to transfer information from an application on your Newton device to a file on your computer.

# **About exporting**

Newton Connection comes with translators that convert Newton information into commonly used file formats. For example, you can transfer information into formats used by desktop applications such as Address Book or iCal.

For a list of translators included with Newton Connection, see the Appendix, "Translators for Newton Connection."

When you export, you can export all information in a Newton application or you can export selected information. See "Exporting All Information" and "Exporting Selected Information" later in this chapter.

**IMPORTANT** It's a good idea to make a backup of information on your Newton device before you export. For more information on backing up your Newton device, see Chapter 2.

# Choosing when to export

Typically, you export when you want to transfer a large amount of information from your Newton device to your computer and maintain the information on your computer. For example, you might export Notes from your Newton device to include in a report you're writing on your computer.

# **Exporting all information**

To export all information from a Newton application:

1 Open Newton Connection and establish a connection from your Newton device.

For instructions, see Chapter 1, "Getting Started."

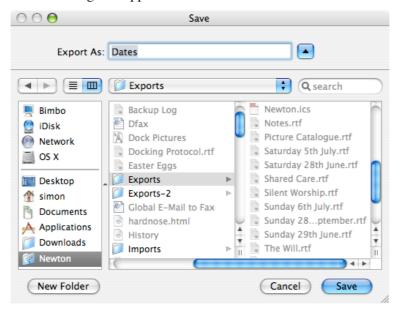
2 Click the Export button in the Newton Connection window.

A slip appears with a list of Newton applications you can export information from.



### 3 Select an application and click OK.

A Save dialog box appears.

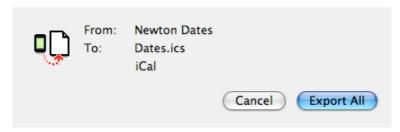


# 4 Type the name of the file you're exporting.

When you export, a new file is created with the name you entered.

### 5 Click Save.

The Export dialog box appears.



*Note:* The contents of this dialog box depend on the type of file you're exporting and the application you're exporting from.

# 7 Click Export All.

All information is exported from your Newton application and Newton Connection creates a new file with the format you selected.

# **Exporting selected information**

In addition to exporting all information in a Newton application, you can select which information is exported. For example, if you're exporting information from your Newton Notes application, you can select a subset of notes to export.

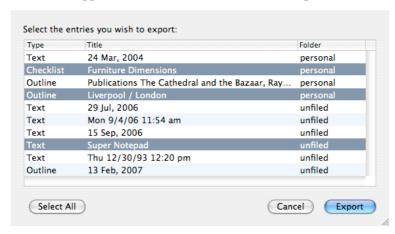
Note: Not all translators allow you to select which information to export.

To export selected information:

- 1 Follow steps 1 to 6 in the previous section, "Exporting All Information."
- 2 When the Export dialog box appears, click Select.



A window appears with a list of information to export.



### 3 Select the entries you want to export.

Click an entry to select it for export. You can select groups of entries by dragging or using Shift-click. You can select non-contiguous entries by holding down Command (策) and clicking or dragging. Click the Select All button to select all entries in the window.

To rearrange columns, click the column heading and drag the column to a new location. To sort column entries, click the column heading.

If an entry is already selected, you can click to deselect it.

### 4 Click Export.

After a few moments, the entries you selected are exported and the Export window disappears.

# Synchronizing Information

This chapter describes how to synchronize information on your Newton device with information on your computer.

# **About synchronization**

Synchronization lets you keep applications on your Newton device up to date with applications on your computer. For example, you might have an address book application on your computer that you want to keep current with your Newton Names.

When you synchronize, Newton Connection supplies the Sync Services in Mac OS X with information from your Newton application. The information is combined and updated based on the latest changes. Any applications on your computer that also synchronize using Sync Services will reflect those changes.

Currently, Newton Connection only synchronizes Names.

# Synchronizing for the first time

Until you are sure that synchronization gives the results you expect, make a backup of information on your Newton device.

To synchronize for the first time:

1 Open Newton Connection and establish a connection from your Newton device.

For instructions, see Chapter 1, "Getting Started."

2 Click the Synchronize button in the Newton Connection window.

Synchronization begins immediately. Information in your Newton application is combined with information on your computer. Both the computer and your Newton application are updated.

# Resynchronizing your information

Whenever you change information on your Newton device or in your computer, you can resynchronize to keep your applications up to date.

For example, after you add contacts to your Newton Names, you can synchronize the information so the address book on your computer matches your Newton device.

To resynchronize information:

1 Open Newton Connection and establish a connection from your Newton device.

For instructions, see Chapter 1, "Getting Started."

2 Click the Synchronize button in the Newton Connection window.

A warning appears reminding you to make sure the correct storage card is inserted in your Newton device,



If you need to insert a storage card, click Cancel and start the procedure over with the card inserted.

# Using a storage card when you synchronize

If you have a storage card inserted in your Newton device when you synchronize, the appropriate information on the card is included in the synchronization. For example, if you're synchronizing the Newton Names application, all names on the card are included in the synchronization.

**IMPORTANT** If you're synchronizing information on a card, be careful when you resynchronize. Make sure the card you've inserted in your Newton device is the same card you inserted when you last synchronized. Otherwise, you will lose information.

# 8

# **Taking a Screenshot of Your Newton Device**

This chapter describes how to capture an image of your Newton device's screen and save it on your computer.

# **About screenshots**

The Toolkit.pkg provided as part of the Newton Toolkit (and now included with Newton Connection) contains a function that captures an image of the Newton device's screen and returns it to the desktop. Newton Connection uses this function to provide the same service.

*Note:* This means you must install the Toolkit.pkg on your Newton device before you can use the screenshot function.

# Starting a screen capture session

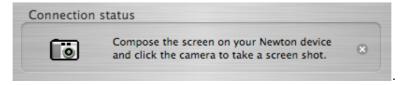
To start a screen capture session:

1 Open Newton Connection and establish a connection from your Newton device.

For instructions, see Chapter 1, "Getting Started."

2 Select the Screen Shot item in the Newton Connection File menu.

The status box in the Newton Connection window shows what's happening.



3 Arrange what's displayed on your Newton device.

While a screen capture session is active, you can open and close as many slips on your Newton device as desired, open or quit applications, and so on.

4 Click the camera icon in the Newton Connection status box.

A screen image is captured and transferred to your Mac OS computer. Since the size of the image data is quite large, this can take some time.



The image is opened in a new window and also copied to the clipboard so that you can paste it into another application, or save it in a file using the Mac OS X Preview application.

Repeat steps 3-4 to take the shots as you require.

# Ending a screen capture session

When you've finished taking screen shots, you can end a screen capture session by clicking the Stop button  $\otimes$  in the status box.

# 9

# **Using the Utilities From Your Newton Device**

This chapter describes how to use Newton Connection from your Newton device instead of from your computer.

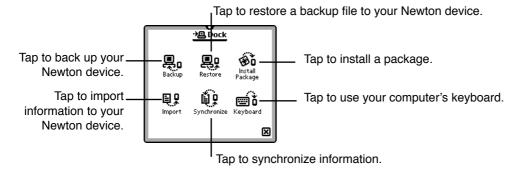
# Using the utilities

To use Newton Connection from your Newton device:

 Open Newton Connection and establish a connection from your Newton device.

For instructions, see Chapter 1, "Getting Started."

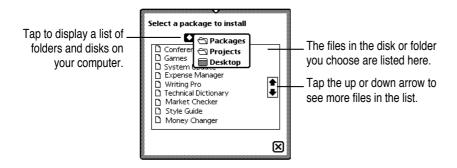
Newton Connection buttons appear on your Newton screen. You can use these buttons to select a utility.



The connection utilities work the same way on your Newton device as on your computer with the exception of export and Newton Works import and export. To use these functions you must use the Newton Connection window on your computer.

# Finding files on your computer

When you need to select a file on your computer (for example, when you restore files or install packages), a slip appears with a list of files. You locate files from your Newton device just as you would from your computer.



# Importing information

When you import information, a slip appears asking you to select a file to import.



Tap to show information about I the selected file.

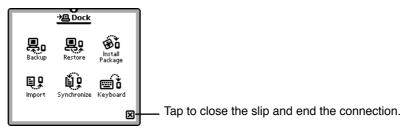
Tap to import the selected file to your Newton device.

# **Changing connection preferences**

To change connection preferences on your Newton device:

1 If necessary, tap to close the Newton Connection slip and end the connection.

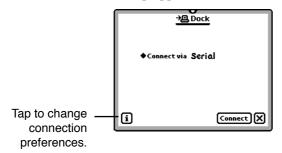
You cannot change connection preferences while a connection is established between your Newton device and your computer.



- 2 On your Newton screen, tap Extras.
- 3 In the Extras Drawer, tap Dock.

You may have an earlier version of this application, called Connection.

A slip appears.



4 Tap the information button and choose Prefs from the list of choices.

A slip appears with a list of connection preferences.

Dock Preferences	
★ Save password	
Remove exact duplicates when importing	- 1
★ Stop connection if no activity	
[]] Always backup all information	
[] AutoDock	
	×

## 5 Select the desired connection preferences.

Connection preferences include:

- Save password: Saves the password you've set for Newton Connection. If
  this item is selected, you only need to enter the password once rather than
  every time you connect to Newton Connection. For more information on
  setting a password, see "Setting a Connection Password' in Chapter 1.
- Remove exact duplicates when importing: Used by other connection products to prevent duplicate entries when you import. Newton Connection does not prevent exact duplicates when you import.
- Stop connection if no activity: A connection you've established between
  your Newton device and your computer is stopped after a period of inactivity
  and your Newton device goes to sleep (according to the Sleep preferences
  you've set).
  - This option applies only if you're using your Newton device with battery power.
- Always backup all information: Automatically backs up all information and packages when you tap Backup.
- AutoDock: Automatically prompts you to start a connection when you plug a
  Newton Serial Adapter into the InterConnect port of a MessagePad 2000 or
  2100. The slip expands allowing you to choose the type of connection to use
  when Auto Docking.



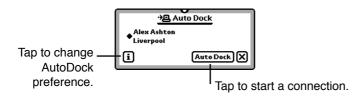
To enable Auto Docking, you must also select the Auto Dock preference in the Prefs application.

# 6 Tap ⊠ to close the slip.

Your connection preferences are saved and will be used when you connect your Newton device to your computer.

## **AutoDock**

The MessagePad 2000 and 2100 can detect when a Newton Serial Adapter is inserted into the InterConnect port. If you have chosen to AutoDock, when this happens a slip is shown:



You must first start up Newton Connection on your computer. If your Newton Connection preference is to back up on AutoDock, a full backup will begin automatically when you tap the AutoDock button.

*Note:* If your password is not saved, AutoDock will not back up or synchronize. Make sure you indicate the password is saved in Dock Preferences or don't use a password.

# 10 Troubleshooting

This chapter describes some common problems you may encounter when using Newton Connection. For problems related to your Newton device, see the handbook that came with your Newton device. For the latest product and troubleshooting information, check the ReadMe file located in the Newton Connection folder or see the Newton Connection web site (http://homepage.mac.com/simonbell/connection/).

# **Problems launching the utilities**

# An error message appears when I try to launch Newton Connection.

• Make sure your computer meets the installation requirements. See "Installation Requirements" in Chapter 1.

# When I try to quit Newton Connection it remains active and I can't even Force Quit it.

• You need to restart your computer. Make sure if you use a Keyspan USB to serial adapter that its driver is not installed in the Classic environment.

# Problems establishing a connection

## I can't establish an ethernet or serial connection from my Newton device.

- Check your connection cables to make sure they're connected properly. See "Connecting a Newton device to Your Computer" in Chapter 1.
- If you're connected via a USB to serial adapter, make sure you've selected the correct serial port on your computer, and that if you're using a faster serial speed this matches the type of connection on your Newton device . See "Preparing Your Computer" in Chapter 1.
- Make sure you've selected the correct type of connection on your Newton device. See "Preparing Your Newton device" in Chapter 1.

# I can't choose menu commands or click buttons in the Newton Connection window.

 Most menu commands and buttons are dimmed in Newton Connection until you establish a connection from your Newton device. See "Establishing a Connection" in Chapter 1.

# I can't use Newton Connection because I forgot my password for the utilities.

- Remove the Newton Connection preferences file. This file is located in the Preferences folder in your home Library folder:
   ~/Library/Preferences/com.newton.connection.plist.
   After you remove the file, you'll need to re-enter preferences for Newton
  - After you remove the file, you'll need to re-enter preferences for Newton Connection. "See Preparing Your Computer" in Chapter 1.

Newton Connection indicates that I am successfully connected, but I can't initiate any actions from my computer.

• If the connection has been idle for some time it can go to sleep. Try tapping outside of the Dock slip on your Newton device to wake it up.

# I am experiencing problems using Newton Connection from my Newton device.

• Initiate actions from your desktop computer.

# An error message appears saying my Newton device is out of memory.

 Quit any Newton applications you are no longer using, delete or freeze applications you don't need, or store information on a storage card then delete it from the internal memory of your Newton device.

### I can't connect to my eMate 300.

• Ensure you are connecting using the Dock application on your eMate. The Classroom Dock application will not connect to Newton Connection.

# Problems backing up and restoring information

## I can't create a backup file.

- Make sure your Newton device is connected to your computer and you've selected the correct type of connection on your computer. See Chapter 1.
- Make sure you've selected the correct type of connection on your Newton device. See "Preparing Your Newton device" in Chapter 1.
- Make sure you've established a connection from your Newton device. See "Establishing a Connection" in Chapter 1.
- Make sure you have enough disk space on your hard disk for the backup file.

I can't locate backup files in my Documents folder.

• You may have changed the location of backup files to another folder. See "Changing the Location of the Backups Folder" in Chapter 2.

# When I back up a storage card, the information on the card is backed up, but not the packages.

- Make sure you've selected "Include all packages" in the Backup dialog box. See "Backing Up All Information and Packages" in Chapter 2.
- Newton Connection does not back up packages on a storage card if you're
  using a Newton device with the Newton 2.0 operating system and the storage
  card is formatted for an earlier version of the Newton operating system. If
  the storage card is formatted for the Newton 2.0 operating system, packages
  are backed up.

# I can't restore backup files created with the Newton Connection Utilities or Newton Connection Kit.

• Newton Connection does not read files created with other Newton connection applications.

### I can't restore because the most recent backup file is damaged or lost.

• Use a previous backup from the Previous Backups folder. See "Previous Backups" in Chapter 2.

# I can't restore a backup file because there's not enough memory available on my Newton device.

• Delete items you no longer use from your Newton device and try restoring again.

# Usually I can restore a backup file, but sometimes it fails; is there a best way to perform a restore?

- The Newton operating system was not designed for storage cards larger than 4MB. Today we expect much more of it; you need to ensure it has the maximum resources available.
- Launch Newton Connection afresh before each restore.
- If restoring to a card, ensure it is inserted before establishing a connection.
- If restoring to a card and you don't want to keep anything already on it, erase the card. This will recover memory that can be lost over time by the Newton operating system.

# **Problems installing packages**

### I can't install a package.

 You may not have enough free storage space on your storage card or Newton device. Try deleting packages you don't need.

# A package I installed on my Newton device takes up less memory than on my computer.

• Some packages are compressed when you install them on your Newton device. The package will work properly.

# When I restore a package to my Newton device, an "X" appears on top of the package.

• An "X" means the package is not activated or is a duplicate. To activate the package, restart your Newton device or open the package by tapping its icon.

# Problems importing, exporting, and synchronizing

### I can't import a text file.

- Make sure the file has an extension of .txt or .rtf. Newton Connection uses the extension to determine how to translate it.
- Make sure the file is a plain or rich text format instead of another format.
   You can only import plain or rich text files into the Newton Notepad and Newton Works.

# Information on my Newton Notepad doesn't look the same when I transfer the information to my computer.

- Some information in your Newton Notepad may not translate directly to an application on your computer and vice versa. See "Tips on Working With Translators" in the Appendix.
- Ink text, drawings, and shapes are ignored when exported to a file on your computer. If the file is imported to the Newton device again, the original items will not appear.



Newton Connection includes the following translators. You use these translators to import or export information between your Newton device and applications on your computer.

# List of translators

This appendix lists translators currently supported by Newton Connection. For the latest information on translators, see the Newton Connection web site (http://homepage.mac.com/simonbell/connection/).

Newton device	Mac OS-based computer	File format
Dates	iCal	.ics
Names	Address Book	.vcf
Notepad	TextEdit (or any word processor) audio	.rtf .txt (import only) .aifc (export only)
Newton Works	TextEdit (or any word processor) spreadsheet	.rtf .txt (import only) .csv (export only)
MAD Max	MP3	.mp3 (import only)

# Tips on working with translators

- There is some support for export of Works drawing documents, but in general graphics are not imported or exported. When you export notes that contain ink or sketches, only the text is exported.
- To Dos are not imported into or exported from the Dates application.
- If you want to import/export URLs in Names cards, you should install NamesURLs.pkg which adds a URL field to the All Info view of a Names entry.