DECLARATION OF CONFORMITY

Hereby, NOKIA CORPORATION declares that this RM-449 product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A copy of the Declaration of Conformity can be found at http://www.nokia.com/phones/declaration_of_conformity/.

© 2010 Nokia. All rights reserved.

Nokia, Nokia Connecting People, Nokia Original Enhancements logo, Nokia Care, Eseries, Nokia E63, Ovi, and Visual Radio are trademarks or registered trademarks of Nokia Corporation. Nokia tune is a sound mark of Nokia Corporation. Other product and company names mentioned herein may be trademarks or tradenames of their respective owners.

Reproduction, transfer, distribution, or storage of part or all of the contents in this document in any form without the prior written permission of Nokia is prohibited. Nokia operates a policy of continuous development. Nokia reserves the right to make changes and improvements to any of the products described in this document without prior notice.

This product includes software licensed from Symbian Software Ltd ©1998-2010. Symbian and Symbian OS are trademarks of Symbian Ltd.

Java and all Java-based marks are trademarks or registered trademarks of Sun Microsystems, Inc.

Portions of the Nokia Maps software are © 1996-2010 The FreeType Project. All rights reserved.

This product is licensed under the MPEG-4 Visual Patent Portfolio License (i) for personal and noncommercial use in connection with information which has been encoded in compliance with the MPEG-4 Visual Standard by a consumer engaged in a personal and noncommercial activity and (ii) for use in connection with MPEG-4 video provided by a licensed video provider. No license is granted or shall be implied for any other use. Additional information, including that related to promotional, internal, and commercial uses, may be obtained from MPEG LA, LLC. See http://www.mpegla.com.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, UNDER NO CIRCUMSTANCES SHALL NOKIA OR ANY OF ITS LICENSORS BE RESPONSIBLE FOR ANY LOSS OF DATA OR INCOME OR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL OR INDIRECT DAMAGES HOWSOEVER CAUSED.

THE CONTENTS OF THIS DOCUMENT ARE PROVIDED "AS IS". EXCEPT AS REQUIRED BY APPLICABLE LAW, NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE MADE IN RELATION TO THE ACCURACY, RELIABILITY OR CONTENTS OF THIS DOCUMENT. NOKIA RESERVES THE RIGHT TO REVISE THIS DOCUMENT OR WITHDRAW IT AT ANY TIME WITHOUT PRIOR NOTICE.
Reverse engineering of software in the device is prohibited to the extent permitted by applicable law. Insofar as this user guide contains any limitations on Nokia's representations, warranties, damages and liabilities, such limitations shall likewise limit any representations, warranties, damages and liabilities of Nokia's licensors. The third-party applications provided with your device may have been created and may be owned by persons or entities not affiliated with or related to Nokia. Nokia does not own the copyrights or intellectual property rights to the third-party applications. As such, Nokia does not take any responsibility for end-user support, functionality of the applications, or the information in the applications or these materials. Nokia does not provide any warranty for the third-party applications. BY USING THE APPLICATIONS YOU ACKNOWLEDGE THAT THE APPLICATIONS ARE PROVIDED AS IS WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW. YOU FURTHER ACKNOWLEDGE THAT NEITHER NOKIA NOR ITS AFFILIATES MAKE ANY REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF TITLE, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR THAT THE APPLICATIONS WILL NOT INFRINGE ANY THIRD-PARTY PATENTS, COPYRIGHTS, TRADEMARKS, OR OTHER RIGHTS.

The availability of particular products and applications and services for these products may vary by region. Please check with your Nokia dealer for details and availability of language options. This device may contain commodities, technology or software subject to export laws and regulations from the US and other countries. Diversion contrary to law is prohibited.

The availability of some features may vary by region. Please contact your operator for more details.

FCC/INDUSTRY CANADA NOTICE
Your device may cause TV or radio interference (for example, when using a telephone in close proximity to receiving equipment). The FCC or Industry Canada can require you to stop using your telephone if such interference cannot be eliminated. If you require assistance, contact your local service facility. This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by Nokia could void the user's authority to operate this equipment.

/Issue 2.0 EN-US
## Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety</td>
<td>7</td>
</tr>
<tr>
<td>About your device</td>
<td>7</td>
</tr>
<tr>
<td>Network services</td>
<td>8</td>
</tr>
<tr>
<td><strong>Find help</strong></td>
<td>9</td>
</tr>
<tr>
<td>Support</td>
<td>9</td>
</tr>
<tr>
<td>Remote configuration</td>
<td>9</td>
</tr>
<tr>
<td>Update software using your PC</td>
<td>10</td>
</tr>
<tr>
<td>Accessibility solutions</td>
<td>10</td>
</tr>
<tr>
<td>Further information</td>
<td>10</td>
</tr>
<tr>
<td><strong>Key features</strong></td>
<td>11</td>
</tr>
<tr>
<td><strong>Keys and parts</strong></td>
<td>12</td>
</tr>
<tr>
<td><strong>Set up your device</strong></td>
<td>14</td>
</tr>
<tr>
<td>Insert the SIM card and battery</td>
<td>14</td>
</tr>
<tr>
<td>Charge the battery</td>
<td>15</td>
</tr>
<tr>
<td>Insert the memory card</td>
<td>15</td>
</tr>
<tr>
<td>Eject the memory card</td>
<td>15</td>
</tr>
<tr>
<td>Connect the headset</td>
<td>16</td>
</tr>
<tr>
<td>Attach the wrist strap</td>
<td>16</td>
</tr>
<tr>
<td>Antennas</td>
<td>16</td>
</tr>
<tr>
<td><strong>Get started</strong></td>
<td>17</td>
</tr>
<tr>
<td>First start-up</td>
<td>17</td>
</tr>
<tr>
<td>Welcome</td>
<td>17</td>
</tr>
<tr>
<td>Settings wizard</td>
<td>17</td>
</tr>
<tr>
<td><strong>Home screen</strong></td>
<td>18</td>
</tr>
<tr>
<td><strong>Menu</strong></td>
<td>18</td>
</tr>
<tr>
<td><strong>Transfer content from other devices</strong></td>
<td>19</td>
</tr>
<tr>
<td><strong>Display indicators</strong></td>
<td>20</td>
</tr>
<tr>
<td><strong>Common actions in several applications</strong></td>
<td>21</td>
</tr>
<tr>
<td><strong>Lock the keys</strong></td>
<td>22</td>
</tr>
<tr>
<td><strong>Volume control</strong></td>
<td>23</td>
</tr>
<tr>
<td><strong>Write text</strong></td>
<td>23</td>
</tr>
<tr>
<td><strong>New from Eseries</strong></td>
<td>24</td>
</tr>
<tr>
<td>Access tasks quickly</td>
<td>24</td>
</tr>
<tr>
<td><strong>Home screen</strong></td>
<td>24</td>
</tr>
<tr>
<td><strong>One-touch keys</strong></td>
<td>25</td>
</tr>
<tr>
<td><strong>Nokia Calendar for Eseries</strong></td>
<td>26</td>
</tr>
<tr>
<td><strong>Nokia Contacts for Eseries</strong></td>
<td>28</td>
</tr>
<tr>
<td><strong>Multitasking</strong></td>
<td>29</td>
</tr>
<tr>
<td><strong>Flashlight</strong></td>
<td>29</td>
</tr>
<tr>
<td><strong>Open Ovi</strong></td>
<td>29</td>
</tr>
<tr>
<td><strong>About Ovi Store</strong></td>
<td>29</td>
</tr>
<tr>
<td><strong>Ovi Files</strong></td>
<td>30</td>
</tr>
<tr>
<td><strong>About Ovi Contacts</strong></td>
<td>30</td>
</tr>
<tr>
<td><strong>My Nokia</strong></td>
<td>30</td>
</tr>
<tr>
<td><strong>Phone</strong></td>
<td>32</td>
</tr>
<tr>
<td>Voice calls</td>
<td>32</td>
</tr>
<tr>
<td>Video calls</td>
<td>33</td>
</tr>
<tr>
<td><strong>Net calls</strong></td>
<td>34</td>
</tr>
<tr>
<td><strong>1-touch dialing</strong></td>
<td>36</td>
</tr>
</tbody>
</table>
Safety

Read these simple guidelines. Not following them may be dangerous or illegal. Read the complete user guide for further information.

SWITCH ON SAFELY
Do not switch the device on when wireless phone use is prohibited or when it may cause interference or danger.

ROAD SAFETY COMES FIRST
Obey all local laws. Always keep your hands free to operate the vehicle while driving. Your first consideration while driving should be road safety.

INTERFERENCE
All wireless devices may be susceptible to interference, which could affect performance.

SWITCH OFF IN RESTRICTED AREAS
Follow any restrictions. Switch the device off in aircraft, near medical equipment, fuel, chemicals, or blasting areas.

QUALIFIED SERVICE
Only qualified personnel may install or repair this product.

ACCESSORIES AND BATTERIES
Use only approved accessories and batteries. Do not connect incompatible products.

WATER-RESISTANCE
Your device is not water-resistant. Keep it dry.

About your device

The wireless device described in this guide is approved for use on the (E)GSM 850, 900, 1800, and 1900 networks, and UMTS 850/1900 networks. Contact your service provider for more information about networks.

Your device supports several connectivity methods and like computers may be exposed to viruses and other harmful content. Exercise caution with messages, connectivity requests, browsing, and downloads. Only install and use services and software from trustworthy sources that offer adequate security and protection, such as applications that are Symbian Signed or have passed the Java Verified™ testing. Consider installing antivirus and other security software on your device and any connected computer.

Your device may have preinstalled bookmarks and links for third-party internet sites and may allow you to access third-party sites. These are not affiliated with Nokia, and Nokia does not endorse or assume liability for them. If you access such sites, take precautions for security or content.

© 2010 Nokia. All rights reserved.
Warning: To use any features in this device, other than the alarm clock, the device must be switched on. Do not switch the device on when wireless device use may cause interference or danger.

When using this device, obey all laws and respect local customs, privacy and legitimate rights of others, including copyrights. Copyright protection may prevent some images, music, and other content from being copied, modified, or transferred.

Make back-up copies or keep a written record of all important information stored in your device.

When connecting to any other device, read its user guide for detailed safety instructions. Do not connect incompatible products.

The images in this guide may differ from your device display. Refer to the user guide for other important information about your device.

Network services

To use the device you must have service from a wireless service provider. Some features are not available on all networks; other features may require that you make specific arrangements with your service provider to use them.

Network services involve transmission of data. Check with your service provider for details about fees in your home network and when roaming on other networks. Your service provider can explain what charges will apply. Some networks may have limitations that affect how you can use some features of this device requiring network support such as support for specific technologies like WAP 2.0 protocols (HTTP and SSL) that run on TCP/IP protocols and language-dependent characters.

Your service provider may have requested that certain features be disabled or not activated in your device. If so, these features will not appear on your device menu. Your device may also have customized items such as menu names, menu order, and icons.
Find help

Support

When you want to learn more about how to use your product or you are unsure how your device should function, go to www.nokia.com/support, or using a cellular phone, www.nokia.mobi/support. You can also select Menu > Help > Help in your device.

If this does not resolve your issue, do one of the following:
• Switch off the device, and remove the battery. After about a minute, replace the battery, and switch on the device.
• Restore the original factory settings.
• Update your device software.


Remote configuration

Select Menu > Tools > Device mgr.

With Device manager, you can manage settings, data and software on your device remotely.

You can connect to a server and receive configuration settings for your device. You may receive server profiles and different configuration settings from your service providers or company information management department. Configuration settings may include connection and other settings used by different applications in your device. The available options may vary.

The remote configuration connection is usually started by the server when the device settings need to be updated.

To create a new server profile, select Options > New server profile.

You may receive these settings from your service provider in a configuration message. If not, define the following:
• Server name — Enter a name for the configuration server.
• Server ID — Enter the unique ID to identify the configuration server.
• Server password — Enter a password to identify your device to the server.
• Session mode — Select the preferred connection type.
• Access point — Select the access point to use for the connection or create a new access point. You can also choose to be asked for the access point every time you start a connection. This setting is available only if you have selected Internet as the bearer type.
• Host address — Enter the web address of the configuration server.
• Port — Enter the port number of the server.
• **User name** — Enter your user ID for the configuration server.
• **Password** — Enter your password for the configuration server.
• **Allow configuration** — Select **Yes** to allow the server to initiate a configuration session.
• **Auto-accept all requests** — Select **Yes** if you do not want the server to ask for your confirmation when it initiates a configuration session.
• **Network authentication** — Select whether to use http authentication.
• **Network user name** — Enter your user ID for the http authentication. This setting is available only if you have selected **Network authentication** to be used.
• **Network password** — Enter your password for the http authentication. This setting is available only if you have selected **Network authentication** to be used.

To connect to the server and receive configuration settings for your device, select **Options** > **Start configuration**.

To view the configuration log of the selected profile, select **Options** > **View log**.

**Update software using your PC**

Nokia Software Updater is a PC application that enables you to update your device software. To update your device software, you need a compatible PC, broadband internet access, and a compatible USB data cable to connect your device to the PC.

To get more information and to download the Nokia Software Updater application, go to www.nokia.com/softwareupdate, or in Latin America, www.nokia-latinamerica.com/nsu.

**Accessibility solutions**

Nokia is committed to making mobile phones easy to use for all individuals, including those with disabilities. For more information, visit the Nokia website at www.nokiaaccessibility.com.

**Further information**

**Instructions in your device**

To read instructions for the current view of the open application, select **Options** > **Help**.

To browse the help topics and conduct searches, select **Menu** > **Help** > **Help**. You can select categories for which you want to see instructions. Select a category, such as Messaging, to see what instructions (help topics) are available. While you are reading the topic, scroll left or right to see the other topics in that category.

To switch between the application and help, press and hold the home key.

**Tutorial**

The tutorial provides you information about your device and shows you how to use it. Select **Menu** > **Help** > **Tutorial**.
Key features

Model number: Nokia E63-2 (RM-449).
Hereinafter referred to as Nokia E63.

When using this product in Latin America, you may refer to the warranty and reference leaflet included in your sales package for specific web support addresses.

Your new Nokia E63 helps you manage your business and personal information. Some of the key features are highlighted here:

- Move your contact and calendar information from a previous device to your Nokia E63 with Switch.
- Receive and send messages while on the move.
- Browse the internet with Web.
- Browse your company intranet with Intranet.
- Use your device as a flashlight.
- Stay up-to-date and plan your meetings with Calendar.

Manage your business partners and free time friends with the new Contacts application.

Make calls using voice over IP services with Internet tel.

Connect to WLAN with WLAN wizard.

Find points of interest with Maps.

Switch from business to personal mode.

Edit the appearance and setup of your home screen with Modes.
Keys and parts

1 — Loudspeaker
2 — Earpiece
3 — Navi™ key (scroll key). Press the scroll key to make a selection, or to scroll left, right, up, and down on the display. Press and hold the scroll key to accelerate the scrolling. Use the scroll key together with the function key to adjust the volume.
4 — Selection key. Press the selection key to perform the function displayed above it.
5 — Call key
6 — Microphone

7 — Charger connector
8 — Backspace key
9 — Power/End key. Press the key to reject a call, and end active calls and call on hold, or switch between profiles. Press and hold the key to switch the device on or off.
10 — Selection key
11 — Light sensor
12 — Headset connector
press the corresponding key, or press and hold the corresponding key only.

2 — Shift key. To switch between the different character cases, press the Shift key.

3 — Chr key. When writing text, press the Chr key to insert characters not shown on the keyboard.

4 — Ctrl key. Access the shortcuts behind the ctrl key, such as ctrl + C.
Set up your Nokia E63 following these instructions.

Insert the SIM card and battery

1. To open the back cover of the device, with the back facing you, unlock the back cover release button and lift the back cover off.

2. If the battery is inserted, lift the battery in the direction of the arrow to remove it.

3. Insert the SIM card. Ensure the contact area on the card is facing the connectors on the device and that the beveled corner is facing the top of the device.

4. Insert the battery. Align the contacts of the battery with the corresponding connectors on the battery compartment and insert in the direction of the arrow.

5. Close the back cover, and lock the back cover release button.
Charge the battery

1. Connect a compatible charger to a wall outlet.
2. Connect the charger to the device. If the battery is completely discharged, it may take a while before the charging indicator starts scrolling.
3. When the battery is fully charged, disconnect the charger from the device, then from the wall outlet.

Your battery has been precharged at the factory, but the charging levels may vary. To reach the full operation time, charge the battery until it has been fully charged according to the battery level indicator.

Tip: You can use older style Nokia chargers with your device by attaching the CA-44 adapter to the old charger. The adapter is available as a separate enhancement.

Insert the memory card

Use a memory card to save the memory on your device. You can also back up information from your device to the memory card.

The sales package of your device may not include a memory card. Memory cards are available as separate accessories.

1. Open the cover of the memory card slot.
2. Insert the memory card in the slot with the contact area first. Ensure the contact area is facing the connectors on the device.
3. Push the card in until it locks into place.
4. Close the cover.

Eject the memory card

1. Press the power key briefly, and select Remove memory card.
2. Open the cover of the memory card slot.
3. Press the end of the memory card to release it from the memory card slot.
4. Close the cover.
Connect the headset

**Warning:** When you use the headset, your ability to hear outside sounds may be affected. Do not use the headset where it can endanger your safety.

Connect the compatible headset to the headset connector of your device.

Attach the wrist strap

Thread the wrist strap, and tighten it.

Antennas

Your device may have internal and external antennas. Avoid touching the antenna area unnecessarily while the antenna is transmitting or receiving. Contact with antennas affects the communication quality and may cause a higher power level during operation and may reduce the battery life.
Get started

After you have set up your device, switch it on and start to explore what is new in Eseries.

First start-up

1. Press and hold the power key until you feel the device vibrate.
2. If prompted, enter the PIN code or lock code, and select OK.
3. When prompted, enter the country in which you are located and the current date and time. To find your country, enter the first letters of the country name. It is important to select the correct country, because scheduled calendar entries may change if you change the country later and the new country is located in a different time zone.
4. The Welcome application opens. Select from the options, or select Exit to close the application.

To configure the settings in your device, use the wizards available in the home screen and the Settings wizard application. When you switch the device on, it may recognize the SIM card provider and configure some settings automatically. You can also contact your service provider for the correct settings.

You can switch the device on without inserting a SIM card. The device starts up in the offline profile, and you cannot use the network-dependent phone functions.

To switch the device off, press and hold the power key.

Welcome

When you switch on your device for the first time, the Welcome application opens. Select from the following:

- **Tutorial** provides information about your device and shows you how to use it.
- **Switch** enables you to transfer content, such as contacts and calendar entries, from a compatible Nokia device. See "Transfer content between devices," p. 19.
- **E-mail settings** helps you configure e-mail settings.
- **Sett. wizard** helps you configure various settings. See "Settings wizard," p. 17.

To open the Welcome application later, select Menu > Help > Welcome.

The available options may vary.

Settings wizard

Select Menu > Tools > Sett. wizard.
Settings wizard configures your device for settings based on your network operator information. To use these services, you may have to contact your service provider to activate a data connection or other services.

The availability of the items in Settings wizard depends on the features of the device, SIM card, network operator, and the data in the Settings wizard database.

If Settings wizard is not available from your service provider, it may not appear in the menu of your device.

To start the wizard, select **Start**. When you use the wizard for the first time, you are guided through the settings configuration. If there is no SIM card inserted, you need to select the home country of your service provider, and your service provider. If the country or service provider suggested by the wizard is not correct, select the correct one from the list. If the settings configuration is interrupted, the settings are not defined.

To access the main view of the Settings wizard after the wizard has finished the settings configuration, select **OK**.

In the main view, select from the following:

- **Operator** — Configure operator-specific settings such as MMS, internet, WAP, and streaming settings.
- **E-mail setup** — Configure e-mail settings.
- **Push to talk** — Configure push-to-talk settings.
- **Video sharing** — Configure video sharing settings.

If you are not able to use the Settings wizard, visit the Nokia phone settings web site.

---

**Home screen**

From the home screen you can quickly access features that you use the most, and see at a glance any missed calls or new messages.

You can define two separate home screens for different purposes, such as one screen to show your business e-mail and notifications, and another to show your personal e-mail. This way, you do not have to see business-related messages outside office hours.

**Menu**

Select **Menu**.

The menu is a starting point from which you can open all applications in the device or on a memory card.

The menu contains applications and folders, which are groups of
similar applications. All applications you install in the device yourself are by default saved in the Installat. folder.

To open an application, scroll to it, and press the scroll key.

To view the applications in a list, select Options > Change Menu view > List. To return to the grid view, select Options > Change Menu view > Grid.

To view the memory consumption of different applications and data stored on the device or memory card and to check the amount of free memory, select Options > Memory details.

To create a new folder, select Options > New folder.

To rename a new folder, select Options > Rename.

To rearrange the folder, scroll to the application you want to move, and select Options > Move. A check mark is placed beside the application. Scroll to a new location, and select OK.

To move an application to a different folder, scroll to the application you want to move, and select Options > Move to folder, the new folder, and OK.

To download applications from the web, select Options > Download applications.

To switch between several open applications, press and hold the home key. Select an application, and press the scroll key to switch to it. Leaving applications running in the background increases the demand on battery power and reduces the battery life.

---

Transfer content from other devices

Select Menu > Tools > Switch.

You can transfer content, such as contacts, from a compatible Nokia device to your new Eseries device using different connectivity methods. The type of content that can be transferred depends on the device model. If the other device supports synchronization, you can also synchronize data between the two devices or send data from this device to the other device.

When you transfer data from your previous device, it may require you to insert the SIM card. Your new Eseries device does not need a SIM card when transferring data.

Content is copied from the memory of the other device to the corresponding location in your device. Copying time depends on the amount of data to be transferred. You can also cancel and continue later.

The necessary steps for data transfer may vary depending on your device, and whether you have interrupted data transfer earlier. The items that you can transfer vary depending on the other device.

Transfer content between devices

To connect the two devices, follow the instructions on the display. For some device models, the Switch application is sent to the other device as a message. To install Switch on
the other device, open the message and follow the instructions on the display. On your new Eseries device, select the content you want to copy from the other device.

After the data transfer, you can save the shortcut with the transfer settings to the main view to repeat the same transfer later. To edit the shortcut, select **Options > Shortcut settings**.

**View transfer log**

A transfer log is shown after every transfer.

To view the transfer details, scroll to the transferred item in the log and select **Options > Details**.

To view the log of a previous transfer, scroll to a transfer shortcut, if available, in the main view and select **Options > View log**.

Any unresolved transfer conflicts are also displayed in the log view. To start solving conflicts, select **Options > Solve conflicts**.

**Synchronize, retrieve, and send data**

If you have previously transferred data to your device with the Switch application, select from the following icons in the Switch main view:

- **Synchronize** data with a compatible device if the other device supports synchronization. With synchronization, you can keep the data up-to-date in both devices.
- **Retrieve** data from the other device to your new Eseries device.
- **Send** data from your new Eseries device to your other device.

**Display indicators**

- **3G** The device is being used in a UMTS network (network service).
- **** The battery charge level. The higher the bar, the stronger the charge in the battery.
- **** You have one or more unread messages in the Inbox folder in Messaging.
- **@** You have received new e-mail in the remote mailbox.
- **** There are messages waiting to be sent in the Outbox folder in Messaging.
- **** You have one or more missed phone calls.
- **** The keys of the device are locked.
- **** An alarm is active.
- **** You have selected the Silent profile, and the device does not ring for an incoming call or message.

© 2010 Nokia. All rights reserved.
Bluetooth connectivity is active.

Data is being transmitted using Bluetooth connectivity. When the indicator is blinking, your device is trying to connect with another device.

A GPRS packet data connection is available (network service). If the icon is *, the connection is active. If the icon is 0, the connection is on hold.

An EGPRS packet data connection is available (network service). If the icon is *, the connection is active. If the icon is 0, the connection is on hold.

A UMTS packet data connection is available (network service). If the icon is *, the connection is active. If the icon is 0, the connection is on hold.

You have set the device to scan for wireless LANs (WLAN), and a WLAN is available.

A WLAN connection is active in a network that does not have encryption.

A WLAN connection is active in a network that has encryption.

Your device is connected to a computer with a USB cable.

The second phone line is being used (network service).

All calls are forwarded to another number. If you have two phone lines, a number indicates the active line.

A headset is connected to the device.

The connection to a headset with Bluetooth connectivity has been lost.

A hands-free car kit is connected to the device.

A loopset is connected to the device.

A text phone is connected to the device.

Your device is synchronizing.

You have an ongoing push-to-talk connection.

Your push-to-talk connection is in do not disturb mode, because the ringing type of your device is set to Beep once or Silent, or you have an incoming or ongoing phone call. In this mode, you cannot make PTT calls.

Common actions in several applications

You can find the following actions in several applications:
To change the profile, or switch off or lock the device, press the power key briefly.

If an application consists of several tabs (see figure), open a tab by scrolling right or left.

To save the settings that you have configured in an application, select Back.

To save a file, select Options > Save. There are different saving options depending on the application you use.

To send a file, select Options > Send. You can send a file in an e-mail or multimedia message, or using different connectivity methods.

To copy, press and hold the shift key, and select the text with the scroll key. Press and hold the shift key, and select Copy. To paste, scroll to where you want to paste the text, press and hold the shift key, and select Paste. This method may not work in applications that have their own copy and paste commands.

To select different items, such as messages, files or contacts, scroll to the item you want to select. Select Options > Mark/Unmark > Mark to select one item or Options > Mark/Unmark > Mark all to select all items.

Tip: To select almost all items, first select Options > Mark/Unmark > Mark all, then select the items you do not want, and Options > Mark/Unmark > Unmark.

To select an object (for example, an attachment in a document) scroll to the object so that square markers appear on each side of the object.

**Lock the keys**

The keypad of your device locks automatically to prevent the keys from being accidentally pressed. To change the time period after which the keypad is locked, select Menu > Tools > Settings > General > Security > Phone and SIM card > Keypad autolock period.

To lock the keys manually in the home screen, press the left selection key and the function key.

To lock the keys manually in the menu or in an open application, press the power key briefly, and select Lock keypad.

To unlock the keys, press the left selection key and the function key.
Volume control

To adjust the earpiece volume during a phone call, scroll left or right. To adjust the volume of the media applications, press and hold the function key, and scroll up or down.

Write text

The input methods provided in the device may vary according to different sales markets.

Write text with the keyboard

Your device has a full keyboard.

To insert punctuation marks, press the corresponding key or a combination of keys.

To switch between the different character cases, press the Shift key.

To insert digits or characters printed at the top of keys, press and hold the corresponding key, or press and hold the function key and press the corresponding key.

To erase a character, press the backspace key. To erase several characters, press and hold the backspace key.

To insert characters and symbols that are not shown on the keyboard, press the Chr key.

To copy text, press and hold the Shift key, and scroll to highlight the word, phrase, or line of text you want to copy.

Press Ctrl + C. To insert the text into a document, move to the correct place, and press Ctrl + V.

To change the writing language, or to activate predictive text input, select Options > Input options and from the available options.

Predictive text input

To activate predictive text input, press the function key + spacebar and select Predictive text > On. The indicator is shown on the display. When you start writing a word, your device suggests possible words. When the correct word is found, scroll right to confirm it. While writing, you can also scroll down to access a list of suggested words. If the desired word is on the list, scroll to it and press the scroll key. If the word you are writing is not in the dictionary of the device, the device suggests a possible word, while the word you were writing is shown above the suggested word. Scroll up to select your word. The word is added to the dictionary when you start writing the next word.

To switch predictive text input off, press the function key + spacebar and select Predictive text > Off.

To define the settings for text input, select Options > Input options > Settings.

To change the writing language, select Options > Input options > Writing language.
New from Eseries

Your new Eseries device contains new versions of the Calendar and Contacts applications, as well as a new home screen. You can also access the Ovi services with your device.

Access tasks quickly

Whenever you see the icon on the home screen, or in the Contacts or Calendar applications, scroll right to access a list of available actions. To close the list, scroll left.

When you navigate in these applications, to go back to the previous level, scroll left.

Home screen

From the home screen you can quickly access features that you use the most and see at a glance any missed calls or new messages.

Navigate in the home screen

To access the home screen, press the home key briefly.

The home screen consists of:

- application shortcuts

(1) To access an application quickly, scroll to its shortcut and press the scroll key.

- information area

(2) To check an item displayed in the information area, scroll to the item and press the scroll key.

- notifications

(3) To view the notifications, scroll to a box. Each box is only visible if there are items in it. To hide the boxes, press the backspace key.

Work on the home screen

To search for contacts in the home screen, start entering the contact’s name. The device suggests matching contacts. Scroll to the desired contact. This feature may not be available in all languages.

To call the contact, press the call key.
To set off the contact search, select **Options > Contact search off**.

To check your received messages, scroll to the message box in the notification area. To read a message, scroll to it and press the scroll key. To access other tasks, scroll right.

To view your missed calls, scroll to the calls box in the notification area. To return a call, scroll to a call and press the call key. To send a text message to a caller, scroll to a call, scroll right and select **Send text msg**. from the list of available actions.

To listen to your voice mail, scroll to the voice mail box in the notification area. Scroll to the desired voice mailbox and press the call key to call it.

### Switch home screens

You can define two home screen modes for different purposes, such as one mode to show your business e-mail and notifications, and another to show your personal e-mail. This way, you do not have to see business-related messages outside office hours.

Your operator may have set you a third home screen with operator-specific items.

To change from one home screen mode to another, scroll to  and press the scroll key.

### One-touch keys

With the One-touch keys you can access applications and tasks quickly. Each key has been assigned an application and a task. To change these, select **Menu > Tools > Settings > General > Personalization > One-touch keys**. Your network operator may have assigned applications to the keys, in which case you cannot change them.

To access the home screen, press the home key briefly. Press the home key briefly again to access the menu.

To view the list of active applications, press the home key for a few seconds. When the list is open, press the home key briefly to scroll the list. To open the selected application, press the home key for a few seconds or press the scroll key. To close the selected application, press the backspace key.

Leaving applications running in the background increases the demand on battery power and reduces the battery life.
Contacts key
To open the Contacts application, press the contacts key briefly.
To create a new contact, press the contacts key for a few seconds.

Calendar key
To open the Calendar application, press the calendar key briefly.
To create a new meeting entry, press the calendar key for a few seconds.

E-mail key
To open your default mailbox, press the e-mail key briefly.
To create a new e-mail message, press the e-mail key for a few seconds.

Nokia Calendar for Eseries
Select Menu > Office > Calendar.
Create and view scheduled events and appointments, and switch between different calendar views.

Calendar views
You can switch between the following views:
- Month view shows the current month and the calendar entries of the selected day in a list.
- Week view shows the events for the selected week in seven day boxes.
- Day view shows the events for the selected day grouped into time slots according to their starting time.
- To-do view shows all to-do items.
- Agenda view shows the events for the selected day in a list.

To change the view, select Options > Change view and the desired view.

Tip: To open the week view, scroll to a week number and press the scroll key.

To move to the next or the previous day in month, week, day and agenda views, scroll right or left.
To change the default view, select Options > Settings > Default view.
View calendar information

In the month view, calendar entries are marked with a triangle. Anniversary entries are also marked with an exclamation mark. The entries of the selected day are shown in a list.

To open calendar entries, open a calendar view, scroll to an entry and press the scroll key.

Create calendar entries

You can create the following types of calendar entries:
- Meeting entries remind you of events that have a specific date and time.
- Memo entries are related to the whole day but not to a specific time of the day.
- Anniversary entries remind you of birthdays and special dates. They refer to a certain day but not a specific time of the day. Anniversary entries are repeated every year.
- To-do entries remind you of a task that has a due date but not a specific time of the day.

To create a calendar entry, scroll to a date, select Options > New entry and the entry type.

Tip: To create a meeting entry, start entering the subject.

Create meeting, memo, anniversary or to-do entries

1. Enter the subject.
2. For meeting entries, enter the start and end times or select All-day event.
3. For meeting and memo entries, enter the start and end dates. For anniversary entries, enter the date and for to-do entries, enter the due date.
4. For meeting entries, enter the location.
5. For meeting, anniversary and to-do entries, you can set an alarm.
6. For recurring meeting entries, set the recurrence time.
7. For to-do entries, set the priority. To set the priority for meeting entries, select Options > Priority.
8. For memo, anniversary and to-do entries, define how the entry is handled during synchronization. Select Private to hide the entry from viewers if the calendar is available online, Public to make the entry visible to viewers, or None to not copy the entry to your computer.
9. Enter a description.

To send the entry, select Options > Send.

Calendar settings

Select Options > Settings.

To change the alarm tone, select Calendar alarm tone.

© 2010 Nokia. All rights reserved.
To change the view displayed when you open the calendar, select **Default view**.

To change the first day of the week, select **Week starts on**.

To change the week view title, select **Week view title** and **Week number** or **Week dates**.

### Nokia Contacts for Eseries 📞

Select **Menu > Communic. > Contacts**.

Save and update contact information, such as phone numbers, home addresses, or e-mail addresses of your contacts. You can add a personal ringing tone or a thumbnail image to a contact. You can also create contact groups, which allow you to communicate with several contacts at the same time, and send contact information (business cards) to or receive it from compatible devices.

Whenever you see the ➤ icon, scroll right to access a list of available actions. To close the list, scroll left.

#### Add contacts

Select **Options > New contact** and enter the contact's information.

To copy a contact's information from the memory card, select **Options > Copy > From memory card**.

#### Contact groups

Select each contact you want to add to the contact group, select **Options > Mark/Unmark > Mark** to mark it, select **Options > Group > Add to group > Create new group > Group name**, and enter a name for the group.

If you want to make conference calls to the group, define also the following:

- **Conf. service number** — Enter the conference call service number.
- **Conf. service ID** — Enter the conference call ID number.
- **Conf. service PIN** — Enter the conference call PIN code.

To make a conference call to the group, select the group, scroll right, and select **Call conf. service** from the list of available actions.

#### Search for contacts

To search for contacts, start entering the contact's name in the search field.

#### Manage contacts directories

To change the contacts directory, scroll to the top of the names list, press the scroll key and select from the list of available directories.

To organize contacts directories, select **Options > Organize contact lists** and a directory. Scroll up to move it to the desired place.

© 2010 Nokia. All rights reserved.
Add ringing tones for contacts
You can set a ringing tone for a contact or contact group. The ringing tone sounds when the contact calls you.
To add a ringing tone for contacts, open a contact, select Options > Ringing tone and a ringing tone.
To add a ringing tone for contact groups, select a contact group, Options > Group > Ringing tone and a ringing tone.
To remove the assigned ringing tone, select Default tone from the list of ringing tones.

Change contacts settings
Select Options > Settings.
To change the way the contacts' names are displayed, select Name display.
To select which contacts directory opens when you open the Contacts application, select Default contact list.

Multitasking
You can have several applications open at the same time. To switch between active applications, press and hold the home key, scroll to an application, and press the scroll key. To close the selected application, press the backspace key.
Example: When you have an active phone call and want to check your calendar, press the home key to access the menu, and open the Calendar application. The phone call remains active in the background.

Example: When you are writing a message and want to check a web site, press the home key to access the menu, and open the Web application. Select a bookmark or enter the web address manually, and select Go to. To return to your message, press and hold the home key, scroll to the message and press the scroll key.

Flashlight
The camera flash can be used as a flashlight. To switch the flashlight on or off, in the home screen, press and hold the space bar.
Do not point the flashlight at anyone's eye.

Open Ovi
Ovi is your door to different Nokia services.
For a tour and more information, see www.ovi.com.

About Ovi Store
In Ovi Store, you can download mobile games, applications, videos, images, and ringing tones to your device. Some of the items are free of charge; others you need to purchase using your credit card or through your phone bill. Ovi Store offers
you content that is compatible with your mobile device and relevant to your tastes and location.

The content in Ovi Store is sorted into the following categories:
• Recommended
• Games
• Personalization
• Applications
• Audio & video

Ovi Files

With Ovi Files, you can use your Nokia E63 to access content on your computer if it is switched on and connected to the internet. You will need to install the Ovi Files application on every computer you want to access with Ovi Files.

You can try out Ovi Files for a limited trial period.

With Ovi Files, you can:
• Browse, search, and view your images. You do not need to upload the images to the website but you can access your computer content with your mobile device.
• Browse, search, and view your files and documents.
• Transfer songs from your computer to your device.
• Send files and folders from your computer without moving them to and from your device first.
• Access files on your computer even when your computer is switched off. Just choose which folders and files you want to be available, and Ovi Files automatically keeps an up-to-date copy stored in a protected, online storage for access even when your computer is switched off.

For support, see files.ovi.com/support.

About Ovi Contacts

With Ovi Contacts, you can stay connected to the people who matter most. Search for contacts, and discover friends in the Ovi community. Keep in touch with your friends - chat, share your location and presence, and easily follow what your friends are up to and where they are. You can even chat with friends who use Google Talk™.

Sync your contacts, calendar, and other content between your Nokia device and Ovi.com. Your important information is stored and kept up-to-date both in your device and on the web. With Ovi Contacts, you can make your contacts list dynamic and be confident that your contacts are stored on Ovi.com.

You must have a Nokia Account to use the service. Create an account on your mobile device, or go to www.ovi.com on your PC.

Using Ovi Contacts may involve the transmission of large amounts of data through your service provider’s network. Contact your service provider for information about data transmission charges.

My Nokia

My Nokia is a free service that regularly sends you text messages containing tips, tricks, and support for your Nokia
device. It also allows you to browse the My Nokia WAP site where you can find details about Nokia devices and download tones, graphics, games, and applications.

To use the My Nokia service, it must be available in your country and supported by your service provider. You must sign up to use the service.

Call charges apply when you send messages to sign up or unsubscribe.

For terms and conditions, see the documentation supplied with your device, or www.nokia.com/mynokia.

**To start using My Nokia:**

1. Select **Menu**  >  **Help**  >  **My Nokia**.
2. Select **Sign up to My Nokia**.
3. Read the information on the display, and select **Accept**.

My Nokia sends you a text message with further instructions.

To launch the My Nokia WAP site in your browser, select **My Nokia**  >  **Go to My Nokia mobile**.

To unsubscribe from the My Nokia service, select **My Nokia**  >  **Unsubscribe**.

To see the instructions for My Nokia, select **My Nokia**  >  **Instructions**.

© 2010 Nokia. All rights reserved.
Phone

To make and receive calls, the device must be switched on, the device must have a valid SIM card installed, and you must be located in the service area of a cellular network. To make or receive a net call, your device must be connected to a net call service. To connect to a net call service, your device must be in the coverage of a connection network, such as a WLAN access point.

Voice calls

Note: The actual invoice for calls and services from your service provider may vary, depending on network features, rounding off for billing, taxes, and so forth.

Answer a call

To answer a call, press the call key.
To decline a call, press the end key.
To mute the ringing tone instead of answering a call, select Silence.
When you have an active call and the call waiting function (network service) is activated, press the call key to answer a new incoming call. The first call is put on hold. To end the active call, press the end key.

Make a call

To make a call, enter the phone number, including the area code, and press the call key.

Tip: For international calls, add the + character that replaces the international access code, and enter the country code, area code (omit the leading 0, if necessary) and phone number. The character + as replacement for the international access code may not work in all regions. In this case, enter the international access code directly.

To end the call or cancel the call attempt, press the end key.
To make a call using the saved contacts, press the contacts key. Enter the first letters of the name, scroll to the name and press the call key. See "Nokia Contacts for Eseries," p. 28.
To make a call using the log, press the call key to view up to 20 numbers that you last called or attempted to call. Scroll to the desired number or name and press the call key. See "Log," p. 43.
To adjust the volume of an active call, scroll right or left.
To switch from a voice call to a video call, select Options > Switch to video call. The device ends the voice call and makes a video call to the recipient.

© 2010 Nokia. All rights reserved.
Make a conference call

1. To make a conference call, enter a participant's phone number and press the call key.
2. When the participant answers, select **Options** > **New call**.
3. When you have made a phone call to all the participants, select **Options** > **Conference** to merge the calls into a conference call.

To mute the microphone of your device during the call, select **Options** > **Mute**.

To drop a participant from the conference call, scroll to the participant and select **Options** > **Conference** > **Drop participant**.

To discuss privately with a conference call participant, scroll to the participant and select **Options** > **Conference** > **Private**.

Video calls

To be able to make a video call, you need to be in the coverage of a UMTS network. For availability of and subscription to video call services, contact your network operator or service provider. While talking, you can see a real-time, two-way video between you and the recipient of the call, if the recipient has a compatible mobile phone. The video image captured by the camera in your device is shown to the video call recipient. A video call can only be made between two parties.

Make a video call

To make a video call, enter the phone number or select the recipient of the call from Contacts, and select **Options** > **Call** > **Video call**. When the video call starts, the camera of the device is activated. If the camera is already in use, video sending is disabled. If the recipient of the call does not want to send a video back to you, a still image is shown instead. You can define the still image in **Menu** > **Tools** > **Settings** > **Phone** > **Call** > **Image in video call**.

To disable the sending of audio, video, or video and audio, select **Options** > **Disable** > **Sending audio**, **Sending video**, or **Sending aud. & video**.

To adjust the volume of an active video call, scroll right or left.

To use the loudspeaker for receiving audio, select **Options** > **Activate loudspeaker**. To mute the loudspeaker and use the earpiece, select **Options** > **Activate handset**.

To swap the places of images, select **Options** > **Change image order**.

To zoom the image on the display, select **Options** > **Zoom in** or **Zoom out**.

To end the video call and make a new voice call to the same recipient, select **Options** > **Switch to voice call**.

Share a video

Use Video sharing (network service) to send video from your mobile device to another compatible mobile device during a voice call. To use this feature, the device must be within the coverage of a UMTS network.
1. Make a phone call to the selected recipient. You can start sharing a video once the phone call is established and your device has been registered to the SIP server.

2. To send video from your device, select **Options > Share video**, and a sharing option, if available. To preview the clip, select **Options > Play**.

3. Select the recipient from Contacts, or enter the recipient's SIP address manually to send an invitation to the recipient. Sharing begins automatically when the recipient accepts the video sharing.

4. To end sharing the video, select **Stop**. The voice call continues normally.

**Receive a video sharing invitation**

When you receive a video sharing invitation, a message is displayed showing the caller's name or SIP address. To accept the invitation and begin the sharing session, select **Accept**. To decline the invitation, select **Reject**. The voice call continues normally.

**Net calls 🎤**

Select **Menu > Communic. > Internet tel.**

Your device supports voice calls over the internet (net calls). Your device attempts emergency calls primarily over cellular networks. If an emergency call using cellular networks is not successful, your device attempts an emergency call through your net call provider. Due to the established nature of cellular telephony, you should use cellular networks for emergency calls, if possible. If you have cellular network coverage available, make sure that your cellular phone is switched on and ready to make calls before you attempt an emergency call. The capability for an emergency call using internet telephony depends on the availability of a WLAN and your net call provider's implementation of emergency call capabilities. Contact your net call provider to check the internet telephony emergency call capability.

With the net call service (network service), you can make and receive calls over the internet using the VoIP (voice over internet protocol) technology. Net calls can be established between computers, between mobile phones, and between a VoIP device and a traditional telephone. To make or receive a net call, your device must be within WLAN coverage, for example. The availability of the net call service may vary according to your country or area.

**Create a net call profile**

Before you can make net calls, you must create a net call profile.

1. Select **Menu > Tools > Settings > Connection > SIP settings > Options > New SIP profile**, and enter the required information. To make the login to the net call service automatic, select **Registration > Always on**. Contact your net call provider for the correct settings.

2. Select **Back** until you return to the **Connection** settings main view.
3. Select **Internet tel. > Options > New profile**. Enter a name for the profile, and select the SIP profile you just created.

To set the created profile to be used automatically when connecting to the net call service, select **Menu > Communic. > Internet tel. > Preferred profile**.

To login to the net call service manually, select **Registration > When needed** in the SIP settings when creating a net call profile.

To make secure net calls, ask your service provider for secure net call settings. The proxy server selected for the net call profile must support secure net calls. A secure net call is indicated with 🗨️.

### Connect to the net call service

Select **Menu > Communic. > Internet tel.**.

To make or receive a net call, your device must be connected to a net call service. If you have selected automatic login, your device automatically connects to the net call service. If you login to the service manually, select an available network from the list and **Select**.

The list of networks is refreshed automatically every 15 seconds. To refresh the list manually, select **Options > Refresh**. Use this option if your WLAN is not shown on the list.

To select a net call service for outgoing calls if the device is connected to more than one service, select **Options > Change service**.

To configure new services, select **Options > Configure service**. This option is shown only if there are services that have not been configured.

To save the network to which you are currently connected, select **Options > Save network**. The saved networks are marked with a star on the list of networks.

To connect to a net call service using a hidden WLAN, select **Options > Use hidden network**.

To end the connection to a net call service, select **Options > Disconnect from service**.

### Make net calls

You can make a net call from all applications where you can make a regular voice call. For example in Contacts, scroll to the desired contact, and select **Call > Internet call**.

To make a net call in the home screen, enter the SIP address, and press the call key.

To set net call as the preferred call type for outgoing calls, select **Menu > Communic. > Internet tel. > Options > Settings > Default call type > Internet call**. When your device is connected to a net call service, all calls are made as net calls.

### Net call service settings

Select **Options > Settings**, scroll to the settings of the desired service, and press the scroll key.
To login automatically to the net call service, select Login type > Automatic. If you use the automatic login type for WLANs, the device periodically scans for WLANs, which increases the demand on battery power and reduces the battery life.

To login manually to the net call service, select Login type > Manual.

To view the networks you have saved for the net call service and the networks detected by the net call service, select Saved conn. networks.

To define the service-specific settings, select Edit service settings. This option is only available if a service-specific software plug-in has been installed in the device.

1-touch dialing

Select Menu > Tools > Settings > Phone > Call > 1-touch dialing > On.

1-touch dialing allows you to make a call by pressing and holding a number key when in the home screen.

To assign a number key to a phone number, select Menu > Communic. > 1-touch. Scroll to the number key (2 - 9) on the display and select Options > Assign. Select the desired number from Contacts.

To delete the phone number assigned to a number key, scroll to the 1-touch dialing key and select Options > Remove.

To modify a phone number assigned to a number key, scroll to the 1-touch dialing key and select Options > Change.
Call forward

Select **Menu > Tools > Settings > Phone > Call forwarding**.

Forward incoming calls to your voice mailbox or to another phone number. For details, contact your service provider. Select to forward voice, data or fax calls, and select from the following options:

- **All voice calls, All data calls**, or **All fax calls** — Forward all incoming voice, data or fax calls.
- **If busy** — Forward incoming calls when you have an active call.
- **If not answered** — Forward incoming calls after your device rings for a specified period of time. Select the time you let the device ring before forwarding the call in the **Delay time**: list.
- **If out of reach** — Forward calls when the device is switched off or out of network coverage.
- **If not available** — Activate the last three settings at the same time. This option forwards calls if your device is busy, not answered or out of reach.

To forward calls to your voice mailbox, select a call type and a forwarding option, then select **Options > Activate > To voice mailbox**.

To forward calls to another phone number, select a call type and a forwarding option, then select **Options > Activate > To other number**. Enter a number in the **Number:** field or select **Find** to retrieve a number saved in Contacts.

To check the current forwarding status, scroll to the forwarding option and select **Options > Check status**.

To stop forwarding calls, scroll to the forwarding option and select **Options > Cancel**.

Call restrictions

Select **Menu > Tools > Settings > Phone > Call restriction**.

You can restrict the calls that can be made or received with the device (network service). To change the settings, you
need the restricting password from your service provider. Call restriction affects all call types.

To restrict calls, select from the following:

- **Outgoing calls** — Prevent making voice calls with your device.
- **Incoming calls** — Prevent incoming calls.
- **International calls** — Prevent calling to foreign countries or regions.
- **Incoming calls if roaming** — Prevent incoming calls when outside your home country.
- **International calls except to home country** — Prevent calls to foreign countries or regions, but allow calls to your home country.

To check the status of voice call restrictions, select the restriction option and **Options > Check status**.

To stop all voice call restrictions, select a restriction option and **Options > Cancel all restrict**.

To change the password used for restricting voice, fax, and data calls, select **Options > Edit restriction passwd**. Enter the current code, then the new code twice. The restriction password must be four digits long. For details, contact your service provider.
Restrict net calls

Select Menu > Tools > Settings > Phone > Call restriction > Internet call restriction.

To decline net calls from anonymous callers, select Anonymous call barring > On.

Send Touch tones

You can send Touch tones during an active call to control your voice mailbox or other automated phone services.

Send a Touch tone sequence

1. Make a call and wait until the other end answers.
2. Select Options > Send touch tones.
3. Enter the Touch tone sequence or select a predefined sequence.

Attach a Touch tone sequence to a contact card

1. Select Menu > Communic. > Contacts. Open a contact and select Options > Edit > Options > Add detail > Touch tones.
2. Enter the tone sequence. To insert a pause of about 2 seconds before or between Touch tones, enter p. To set the device to send the Touch tones only after you select Send touch tones during a call, enter w.
3. Select Done.

Voice mail

Select Menu > Communic. > Call mailbox.

When you open the Voice mail application for the first time, you are asked to enter the number of your voice mailbox.

To call your voice mail, select Options > Call voice mailbox.

If you have configured net call settings to your device and have an internet call mailbox, select Internet call mailbox > Options > Call internet call mbx. to call it.
To call your voice mail when in the home screen, press and hold 1; or press 1 and then the call key. If you have defined an internet call mailbox, select whether you want to call your voice mail or internet call mailbox.

To change the voice mailbox number, select the mailbox and Options > Change number.

To change the internet call mailbox address, select the mailbox and Options > Change address.

Voicemail

Voice aid

Select Menu > Tools > Voice aid.

The Voice aid application reads text on the display, allowing you to use the basic functions of your device without looking at the display.

To hear the entries in your contacts list, select Contacts. Do not use this option if you have more than 500 contacts.

To hear information on your missed and received calls, dialed numbers, and frequent calls, select Recent calls.

To listen to your voice messages, select Voice mailbox.

To dial a telephone number, select Dialer.

To use voice commands to make a phone call, select Voice commands.

Voice commands

Select Menu > Tools > Voice commands.

Use voice commands to make phone calls and launch applications, profiles, or other functions on the device.

The device creates a voice tag for the entries in Contacts and for the functions designated in the Voice commands application. When a voice command is spoken, the device compares the spoken words to the voice tag in the device. Voice commands are not dependent on a speaker’s voice; however, the voice recognition in the device adapts to the main user’s voice to recognize voice commands better.

Make a call

A voice tag for a contact is the name or nickname that is saved on the contact in Contacts.

Note: Using voice tags may be difficult in a noisy environment or during an emergency, so you should not rely solely upon voice dialing in all circumstances.
To listen to a voice tag, open a contact, and select Options > Play voice tag.

1. To make a call using a voice command, press and hold the voice key.
2. When you hear the tone or see the visual display, clearly speak the name saved on the contact.
3. The device plays a synthesized voice tag for the recognized contact in the selected device language, and displays the name and number. After a timeout of 1.5 seconds, the device dials the number. If the recognized contact was not correct, select Next to view a list of other matches or Quit to cancel dialing.

   If several numbers are saved under the contact, the device selects the default number, if it has been set. Otherwise, the device selects the first available number of the following fields: Mobile, Mobile (home), Mobile (work), Telephone, Tel. (home), and Tel. (work).

Launch an application

The device creates voice tags for the applications listed in the Voice commands application.

To launch an application using a voice command, press and hold the voice key, and clearly speak the name of the application. If the recognized application was not correct, select Next to view a list of other matches or Quit to cancel.

To add more applications to the list, select Options > New application.

To change the voice command of an application, select Options > Change command, and enter the new command.

Change profiles

The device creates a voice tag for each profile. To set on a profile using a voice command, press and hold the voice key, and say the name of the profile.

To change the voice command, select Profiles > Options > Change command.

Voice command settings

To switch off the synthesizer that plays recognized voice commands in the selected device language, select Options > Settings > Synthesizer > Off.

To reset voice recognition learning when the main user of the device has changed, select Remove voice adapts.

Push to talk

Select Menu > Communic. > PTT.

Push to talk (PTT) (network service) provides direct voice communication connected with the push of a key. With PTT, you can use your device as a walkie-talkie. You can use PTT to have a conversation with one person or with a group of people, or to join a channel. A channel is like a chat room: you can call the channel to see if anyone is
online. The channel call does not alert the other users; the
users just join the channel and start speaking with each
other.

In PTT communication, one person talks while the other users
listen through the built-in loudspeaker. Users take turns
responding to each other. Because only one user can talk at
time, the maximum duration of a speech turn is limited. For
details of the speech turn duration for your network, contact
your service provider.

PTT settings
Select Options > Settings and select User settings to
define your preferences for PTT, or Connection settings to
change the connection details. Contact your service provider
for the correct settings.

Tip: You may also receive the settings in a message
from the provider of the PTT service.

Log in to PTT service
If you have set Application start-up on in User settings, PTT
automatically logs in to the service when started. If not, you
must log in manually.

To log in to the PTT service manually, select Options > Log
in to PTT.

When the Ringing type setting of your device is set to Beep
once or Silent, or there is an ongoing phone call, you cannot
make or receive PTT calls.

Make a PTT call
To make a PTT call, select Options > Contacts, select one or
several contacts from the list, and press the voice key.
Remember to hold the device in front of you during the call
so you can see the display. The display informs you when it
is your turn to speak. Speak towards the microphone, and do
not cover the loudspeaker with your hands. Press and hold
the voice key the entire time you are talking. When you have
finished talking, release the key.

To end the PTT call, press the end key.

When you receive a PTT call, press the call key to answer the
call or the end key to dismiss the call.

Created PTT calls
Select Options > PTT log > Created PTT, and a call.
To make a PTT call to a contact, select Options > Talk 1 to
1.

To send a request to a contact to call you, select Options > Send callback request.
To create a contact, select Options > Save to Contacts.

Manage PTT contacts
To view, add, modify, delete, or call contacts, select
Options > Contacts. A list of names from the Contacts
application is displayed with information about their login
status.
To call a selected contact, select Options > Talk 1 to 1.
To make a group call, select several contacts and Options > Talk to many.
To send the contact a request to call you, select Options > Send callback request.
To answer a callback request, select Show to open the callback request. To make a PTT call to the sender, press the voice key.

Create a PTT channel
To create a channel, select Options > New channel > Create new.
To join a channel, select the channel you want to talk to, and press the voice key.
To invite a user to a channel, select Options > Send invitation.
To view the currently active users of a channel, select Options > Active members.
When you log in to PTT, you are automatically connected to the channels that were active when the application was last closed.

Exit PTT
To exit PTT, select Options > Exit. Select Yes to log out and close the service. Select No if you want to keep the application active in the background.

Log
Select Menu > Log.
Log stores information about the communication history of the device. The device registers missed and received calls only if the network supports these functions, the device is switched on and within the network service area.

Call and data registers
To view recently missed, received, and dialed calls, select Recent calls.
Tip: To open Dialed numbers when in the homescreen, press the call key.
To view the approximate duration of calls to and from your device, select Call timers.
To view the amount of data transferred during packet data connections, select Packet data.

Monitor all communications
To monitor all voice calls, text messages, or data connections registered by the device, open the general log tab.
To view detailed information about a communication event, scroll to it, and press the scroll key.
Tip: Subevents, such as sending a text message in more than one part or opening WiFi connections, are logged as one communication event. Connections to
your mailbox, multimedia messaging center or web pages are shown as packet data connections.

To add the phone number from a communication event to Contacts, select Options > Save to Contacts, and create a new contact, or add the phone number to an existing contact.

To copy the number, for example to paste it to a text message, select Options > Copy number.

To view a single type of communication event or communication events with one other party, select Options > Filter and the desired filter.

To erase the contents of the log, recent calls register, and messaging delivery reports permanently, select Options > Clear log.

**Call and send messages from Log**

To call back a caller, select Recent calls and open Missed calls, Received calls or Dialed numbers. Select the caller and Options > Call.

To reply to a caller with a message, select Recent calls and open Missed calls, Received calls or Dialed numbers. Select the caller and select Options > Create message. You can send text messages and multimedia messages.

**Log settings**

To set the time for keeping all communication events in the log, select Options > Settings > Log duration and the time. If you select No log, all log contents are permanently deleted.
Select **Menu** > **Communic.** > **Messaging**.

In Messaging (network service), you can send and receive text messages, multimedia messages, audio messages, and e-mail messages. You can also receive web service messages, cell broadcast messages, and special messages containing data, and send service commands.

Before sending or receiving messages, you may need to do the following:

- Insert a valid SIM card in the device and be located in the service area of a cellular network.
- Verify that the network supports the messaging features you want to use and that they are activated on your SIM card.
- Define the internet access point settings on the device. See "**Internet access points**," p. 65.
- Define the e-mail account settings on the device. See "**E-mail account settings**," p. 60.
- Define the text message settings on the device. See "**Text message settings**," p. 59.
- Define the multimedia message settings on the device. See "**Multimedia message settings**," p. 59.

The device may recognize the SIM card provider and automatically configure some of the message settings. If not, you may need to define the settings manually; or contact your service provider to configure the settings.

---

**Messaging folders**

Messages and data received using Bluetooth connectivity are stored in the **Inbox** folder. E-mail messages are stored in the **Mailbox**. Messages that you have been writing can be stored in the **Drafts** folder. Messages that are waiting to be sent are stored in the **Outbox** folder, and messages that have been sent, excluding Bluetooth messages, are stored in the **Sent** folder.

**Tip:** Messages are placed in Outbox, for example, when your device is outside network coverage. You can also schedule e-mail messages to be sent the next time you connect to your remote mailbox.

**Note:** The message sent icon or text on your device screen does not indicate that the message is received at the intended destination.

To request the network to send you a delivery report of the text messages and multimedia messages you have sent (network service), select **Options** > **Settings** > **Text message** or **Multimedia message** > **Receive report**. The reports are saved in the **Reports** folder.
Organize messages

To create a new folder to organize your messages, select My folders > Options > New folder.

To rename a folder, select Options > Rename folder. You can only rename folders that you have created.

To move a message to another folder, select the message, Options > Move to folder, the folder, and OK.

To sort messages in a specific order, select Options > Sort by. You can sort the messages by Date, Sender, Subject, or Message type.

To view the properties of a message, select the message and Options > Message details.

Message reader

The message reader reads received text and multimedia messages aloud.

To play a message, press and hold the left selection key when you receive a message.

To start reading the next message in Inbox, scroll down. To start reading the message again, scroll up. In the beginning of the message, scroll up to hear the previous message.

To pause the reading, press the left selection key briefly. To continue, press the left selection key briefly again.

To end the reading, press the end key.

Speech

Select Menu > Tools > Speech.

With Speech, you can set the language, voice, and voice properties for the message reader.

Edit the voice properties

To set the language for the message reader, select Language. To download additional languages to your device, visit the Nokia web site.

To set the speaking voice, select Voice. The voice is language-dependent.

To set the speaking rate, select Voice settings > Speed.

To set the speaking volume, select Voice settings > Volume.

To listen to a voice, open the voice tab, select the voice, and select Options > Play voice.

E-mail messages

Select Menu > Communic. > Messaging > Mailbox.

To receive and send e-mail, you must have a remote mailbox service. This service may be offered by an internet service provider, a network service provider, or your company. Your device is compliant with internet standards SMTP, IMAP4 (revision 1), and POP3, and with different vendor-specific e-mail solutions. Other e-mail providers may offer services with
different settings or features than those described in this user guide. For more details, contact your service provider or e-mail service provider.

You may be able to install the following e-mails to your device:

- Regular POP or IMAP e-mail. You need to connect to the mailbox, and download the e-mails to your device before you can read them.
- Nokia Messaging. Nokia Messaging is used with different internet e-mail providers, such as Google e-mail services. Nokia Messaging pushes the new e-mails to your device as long as the Nokia Messaging application is open.
- Mail for Exchange. Mail for Exchange is usually used for accessing work e-mails. Your company's IT department may have further instructions on how to install and use Mail for Exchange with your company's e-mail servers.

Other e-mail solutions may be available.

If you have defined several mailboxes, for example a POP or IMAP e-mail and Mail for Exchange, select one of them as your default mailbox. That mailbox is used every time you start composing a new e-mail message.

To define the default mailbox in Messaging, select Options > Settings > E-mail > Default mailbox and the mailbox.

E-mail in home screen

To select the mailbox that is shown in the home screen, select Menu > Tools > Settings > General > Personalization > Home screen > Mode settings > Home screen applications > E-mail 1 notification or E-mail 2 notification.

Nokia Messaging

The Nokia Messaging service automatically sends e-mail from your existing e-mail address to your Nokia E63. You can read, respond to, and organize your e-mails on the go. The Nokia Messaging service works with a number of internet e-mail providers that are often used for personal e-mail, such as Google e-mail services.

The Nokia Messaging service may be chargeable. For information on possible costs, contact your service provider or the Nokia Messaging service.

The Nokia Messaging service must be supported by your network and may not be available in all regions.

Install the Nokia messaging application

1. Select Menu > Nokia E-mail > New.
2. Read the information on the display, and select Start.
3. Select Connect to allow your device to access the network.
4. Enter your e-mail address and password.

The Nokia Messaging service can run on your device even if you have installed other e-mail applications, such as Mail for Exchange.
Mail for Exchange

With Mail for Exchange, you can receive your work e-mail to your device. You can read and reply to your e-mails, view and edit compatible attachments, view calendar information, receive and reply to meeting requests, schedule meetings, and view, add, and edit contact information.

ActiveSync

Use of the Mail for Exchange is limited to over-the-air synchronization of PIM information between the Nokia device and the authorized Microsoft Exchange server.

Mail for Exchange can be set up only if your company has Microsoft Exchange Server. In addition, your company's IT administrator must have activated Mail for Exchange for your account.

Before starting to set up Mail for Exchange, ensure that you have the following:

• A corporate e-mail ID
• Your office network user name
• Your office network password
• Your network domain name (contact your company's IT department)
• Your Mail for Exchange server name (contact your company's IT department)

Depending on your company's Mail for Exchange server configuration, you may need to enter other information in addition to those listed. If you do not know the correct information, contact your company's IT department.

With Mail for Exchange, the use of the lock code may be mandatory. The default lock code of your device is 12345, but your company's IT administrator may have set a different one for you to use.

You can access and modify the Mail for Exchange profile and settings in the Messaging settings.

Regular POP or IMAP e-mail

Your device can download e-mails from a POP or IMAP e-mail account.

POP3 is a version of the post office protocol that is used to store and retrieve e-mail or internet mail messages from a server. IMAP4 is a version of the internet message access protocol that lets you access and manage e-mail messages while the messages are still on the e-mail server. You can then choose which messages to download to your device.

Set up POP or IMAP e-mail

1. Go to the home screen, scroll to the e-mail wizard, and press the scroll key.
2. Select Start e-mail setup.
3. Read the information on the display, and select Start.
4. Select Yes to allow your device to access the network.
5. Enter your e-mail address and password.
6. Read the information on the display, and select OK to finalize e-mail setup. The name of your new mailbox replaces Mailbox in the Messaging main view.
Tip: After you have set up a POP or IMAP e-mail, in the Messaging main view, select Options > Settings > E-mail and the mailbox to edit the settings, for example a possible signature, or the name of your mailbox.

Connect to a remote mailbox
E-mail addressed to you is not automatically received by your device, but by your remote mailbox. To read your e-mail, you must first connect to the remote mailbox; then select the e-mail messages you wish to retrieve into your device.

1. To retrieve received e-mail messages to your device and view them, select your mailbox in the Messaging main view. When the device asks Connect to mailbox?, select Yes.

2. Enter your user name and password, if prompted.

3. Select Options > Retrieve e-mail > New to retrieve new messages that you have neither read nor retrieved, Selected to retrieve only messages you select from the remote mailbox, or All to retrieve all messages not previously retrieved.

4. To manage your e-mail offline to save in connection costs and work in conditions that do not allow a data connection, select Options > Disconnect to disconnect from the remote mailbox. Any changes you make in the remote mailbox folders while offline, take effect in your remote mailbox the next time you go online and synchronize.

Read and reply to e-mail

Important: Exercise caution when opening messages. Messages may contain malicious software or otherwise be harmful to your device or PC.

To read a received e-mail, open it from the mailbox.

To open an attachment, select Options > Attachments. Scroll to the attachment and press the scroll key.

To reply only to the sender of an e-mail, select Options > Reply > To sender.

To reply to all recipients of an e-mail, select Options > Reply > To all.

Tip: If you reply to an e-mail that contains attached files, the attachments are not included in the reply. If you forward the received e-mail, the attachments are included.

To forward an e-mail, select Options > Forward.

To attach a file to an e-mail message, select Options > Insert and the attachment you want to add.

To delete an attachment from an e-mail that you are sending, select the attachment and Options > Remove.

To set the message priority, select Options > Sending options > Priority.

To set the sending time for the e-mail message, select Options > Sending options > Send message. Select Immediately, or select When conn. avail. if you are working offline.

© 2010 Nokia. All rights reserved.
To call the sender of the e-mail message, if the sender can be found in Contacts, select Options > Call.

To reply to the sender of the e-mail with an audio message or multimedia message, select Options > Create message.

Write and send e-mail
1. To write an e-mail, select New message > E-mail.
2. Select Options > Add recipient to select the recipients' e-mail addresses from Contacts, or enter the e-mail addresses in the To field. Use a semicolon to separate entries. Use the Cc field to send a copy to other recipients, or the Bcc field to send a blind copy to recipients.
3. In the Subject field, enter the subject of the e-mail.
4. Enter your e-mail message in the text area and select Options > Send.

Delete messages
To free up memory space on your device, regularly delete messages from the Inbox and Sent folders, and delete retrieved e-mail messages.

To delete e-mail from the device only and keep the original on the server, select Options > Delete > Phone (header remains).

To delete e-mail both from the device and the remote server, select Options > Delete > Phone and server.

To cancel the deleting, select Options > Restore.

Subfolders in your remote e-mail
If you create subfolders in your IMAP4 mailboxes on a remote server, you can view and manage these folders with your device when you subscribe to them. You can only subscribe to folders in your IMAP4 mailboxes.

To view folders in your IMAP4 mailbox, establish a connection and select Options > E-mail settings > Retrieval settings > Folder subscriptions.

To view a remote folder, select a folder and Options > Subscribe. Every time you go online, the subscribed folders are updated. This may take some time if the folders are large.

To update the list of folders, select a folder and Options > Update folder list.

Text messages
Select Menu > Communic. > Messaging.

Write and send text messages
Your device supports text messages beyond the limit for a single message. Longer messages are sent as two or more messages. Your service provider may charge accordingly. Characters with accents, other marks, or some language options take more space, and limit the number of characters that can be sent in a single message.

1. To write a text message, select New message > Text message.
2. In the **To** field, enter a recipient's number, or press the scroll key to add a recipient from Contacts. If you enter more than one number, separate the numbers with a semicolon.

3. Enter the text of the message. To use a template, select **Options** > **Insert** > **Template**.

4. Select **Options** > **Send**.

**Sending options for text messages**

To select a message center to send the message, select **Options** > **Sending options** > **Message center in use**.

To have the network send you delivery reports on your messages (network service), select **Options** > **Sending options** > **Receive report** > **Yes**.

To define how long the message center resends your message (network service) if the first attempt fails, select **Options** > **Sending options** > **Message validity**. If the recipient cannot be reached within the validity period, the message is deleted from the message center.

To convert the message to another format, select **Options** > **Sending options** > **Message sent as** > **Text**, **Fax**, **Paging**, or **E-mail**. Change this option only if you are sure that your message center is able to convert text messages into these other formats. Contact your service provider.

**Text messages on the SIM card**

Select **Menu** > **Communic.** > **Messaging** > **Options** > **SIM messages**.

Text messages may be stored on your SIM card. Before you can view SIM messages, you must copy the messages to a folder in the device. After copying the messages to a folder, you can view them in the folder or delete them from the SIM card.

1. Select **Options** > **Mark/Unmark** > **Mark** or **Mark all** to mark every message.

2. Select **Options** > **Copy**.

3. Select a folder and **OK** to begin copying.

To view SIM card messages, open the folder where you copied the messages, and open a message.

**View picture messages**

The appearance of a picture message may vary depending on the receiving device.

To view a picture message, open the message from the Inbox folder.

To view information about the picture message, select **Options** > **Message details**.

To save a message in a different folder, select **Options** > **Move to folder**.

To add the sender of the message to Contacts, select **Options** > **Save to Contacts**.
Forward picture messages

1. To forward the message, open the message from the Inbox folder and select Options > Forward.
2. In the To field, enter a recipient’s number, or press the scroll key to add a recipient from Contacts. If you enter more than one number, separate the numbers with a semicolon.
3. Enter the text of your message. To use a template, select Options > Insert > Template.
4. Select Options > Send.

Create and send multimedia messages

Important: Exercise caution when opening messages. Messages may contain malicious software or otherwise be harmful to your device or PC.

1. To create a new message, select New message > Multimedia message.
2. In the To field, enter a recipient's number or e-mail address, or press the scroll key to add a recipient from Contacts. If you enter more than one number or e-mail address, separate them with a semicolon.
3. In the Subject field, enter a subject for the message. To change the fields that are visible, select Options > Address fields.
4. Enter the text of the message, and select Options > Insert object to add media objects. You can add objects such as Image, Sound clip, or Video clip.
   The wireless network may limit the size of MMS messages. If the inserted picture exceeds this limit, the device may make it smaller so that it can be sent by MMS.
5. Each slide of your message can contain only one video or sound clip. To add more slides to your message, select Options > Insert new > Slide. To change the order of slides in your message, select Options > Move.
6. To preview a multimedia message before sending it, select Options > Preview.
7. Select Options > Send.

Multimedia messages

Select Menu > Communic. > Messaging.

Only devices that have compatible features can receive and display multimedia messages. The appearance of a message may vary depending on the receiving device.

A multimedia message (MMS) can contain text and objects such as images, sound clips, or video clips. Before you can send or receive multimedia messages on your device, you must define the multimedia message settings. Your device may have recognized the SIM card provider and automatically configured the multimedia message settings. If not, use Settings wizard, or contact your service provider for the correct settings. See "Multimedia message settings," p. 59.
To delete an object from a multimedia message, select **Options > Remove**.

To set the sending options for the current multimedia message, select **Options > Sending options**.

### Receive and reply to multimedia messages

**Important:** Exercise caution when opening messages. Messages may contain malicious software or otherwise be harmful to your device or PC.

**Tip:** If you receive multimedia messages that contain objects unsupported by your device, you cannot open them. Try to send these objects to another device such as a computer, and open them there.

1. To reply to a multimedia message, open the message, and select **Options > Reply**.
2. Select **Options** and **To sender** to reply to the sender with a multimedia message, **Via text message** to reply with a text message, **Via audio message** to reply with an audio message, or **Via e-mail** to reply with an e-mail message.
3. Enter the text of the message, and select **Options > Send**.

### Create presentations

Creating multimedia presentations is not possible if the **MMS creation mode** setting is set to **Restricted**. To change the setting, select **Messaging > Options > Settings > Multimedia message > MMS creation mode > Free**.

1. To create a presentation, select **New message > Multimedia message**.
2. In the **To** field, enter a recipient's number or e-mail address, or press the scroll key to add a recipient from Contacts. If you enter more than one number or e-mail address, separate them with a semicolon.
3. Select **Options > Create presentation** and a presentation template. A template may define which media objects you can include in the presentation, where they appear, and which effects are displayed between images and slides.
4. Scroll to the text area and enter the text.
5. To insert images, sound, video, or notes in your presentation, scroll to the corresponding object area, and select **Options > Insert**.
6. To add slides, select **Insert > New slide**.

To select the background color for the presentation and background images for different slides, select **Options > Background settings**.

To set effects between images or slides, select **Options > Effect settings**.

To preview the presentation, select **Options > Preview**. Multimedia presentations may only be viewed in compatible devices that support presentations. They may appear different in different devices.
View presentations

To view a presentation, open the multimedia message from the Inbox folder. Scroll to the presentation, and press the scroll key.

To pause the presentation, press either selection key.

To resume playing the presentation, select Options > Continue.

If the text or images are too large to fit on the display, select Options > Activate scrolling, and scroll to see the entire presentation.

To find phone numbers and e-mail or web addresses in the presentation, select Options > Find. You may use these numbers and addresses to make calls, send messages, or create bookmarks, for example.

View and save multimedia attachments

To view multimedia messages as complete presentations, open the message, and select Options > Play presentation.

Tip: To view or play a multimedia object in a multimedia message, select View image, Play sound clip, or Play video clip.

To view the name and size of an attachment, open the message, and select Options > Objects.

To save a multimedia object, select Options > Objects, the object, and Options > Save.

Forward a multimedia message

Open Inbox, scroll to a multimedia notification, and press the scroll key. To send the message to a compatible device without retrieving it to your device, select Options > Forward. If the server does not support multimedia message forwarding, this option is not available.

1. In the To field, enter a recipient’s number or e-mail address, or press the scroll key to add a recipient from Contacts. If you enter more than one number or e-mail address, separate them with a semicolon.

2. Edit the message, if desired, and select Options > Send.

Tip: To edit the delivery settings of the message, select Options > Sending options.

Send a sound clip

1. To compose an audio message, select New message > Audio message.

2. In the To field, enter a recipient’s number or e-mail address, or press the scroll key to add a recipient from Contacts. If you enter more than one number or e-mail address, separate them with a semicolon.

3. Select Options > Insert sound clip, and select whether to record a sound clip or select one from Gallery.

4. Select Options > Send.
Sending options for multimedia messages

Select New message > Multimedia message > Options > Sending options and from the following options:

- **Receive report** — Select Yes if you want to receive a notification when the message has been successfully delivered to the recipient. Receiving a delivery report of a multimedia message that has been sent to an e-mail address may not be possible.

- **Message validity** — Select how long the messaging center tries to send the message. If the recipient of a message cannot be reached within the validity period, the message is removed from the multimedia messaging center. The network must support this feature. Maximum time is the maximum amount of time allowed by the network.

- **Priority** — Set the sending priority to High, Normal, or Low.

Instant messaging

Select Menu > Communic. > IM.

Instant messaging (IM) (network service) allows you to converse with other people using instant messages and join discussion forums (IM groups) with specific topics. Various service providers maintain IM servers that you can log in to after you register to an IM service. Service providers may differ in their support of features.

If IM is not available from your service provider, it may not appear in the menu of your device. Contact your service provider for more information about signing up for IM services and costs of services. For more information on IM settings, contact your service provider.

You may receive the settings in a special text message from the service provider that offers the IM service. If not, enter the settings manually.

Other instant messaging solutions, such as Windows Live and Yahoo, may be available in Download.

Define IM settings

To define the IM application settings, select Options > Settings > Preferences. You can, for example, set your screen name and IM alert tones.

To converse with an IM user or users, and to view and edit your IM contacts, you must log into an instant messaging server. To add an IM server, select Options > Settings > Servers. For the correct settings, contact your service provider. To set the server as the one to which your device automatically logs in, select Options > Settings > Default server.

To define how your device connects to the IM server, select Options > Settings > IM login type. To establish a connection between your device and the default server automatically, select Automatic. To automate the connection only when in your home network, select Auto in home netw. To connect to the server when you open the IM application, select On app. start-up. To connect to the server manually, select Manual and log into the server in the IM.
main view by selecting Options > Log in. Enter your user ID and password at the prompt. You can obtain the user name, password, and other settings to log in from your service provider when you register for the service.

Start a conversation

Open Conversations.

To search for IM users and user IDs, select IM contacts > Options > New IM contact > Search. You can search by User's name, User ID, Phone number and E-mail address.

To view a conversation, select a participant.

To continue the conversation, enter your message and select Options > Send.

To return to the conversations list without closing the conversation, select Back. To close the conversation, select Options > End conversation.

To start a new conversation, select Options > New conversation. You can start a new conversation with a contact while you are inside an active conversation. However, you cannot have two active conversations with the same contact.

To insert an image to an instant message, select Options > Send image and select the image you want to send.

To save a conversation participant to your IM contacts, select Options > Add to IM contacts.

To save a conversation, while in the conversation view, select Options > Record chat. The conversation is saved as a text file that can be opened and viewed in the Notes application.

IM groups

Open IM groups. IM groups is available only if you are logged into an IM server and the server supports IM groups.

To create an IM group, select Options > Create new group.

To join an IM group or to continue a group conversation, scroll to the group and press the scroll key. Enter a message and select Options > Send.

To join an IM group that is not on the list, but for which you know the group ID, select Options > Join new group.

To leave the IM group, select Options > Leave IM group.

To search for IM groups and group IDs, select IM groups > Options > Search. You can search by Group name, Topic and Members (user ID).

To add an IM user to the group, select Options > Add member. Select a user from your IM contacts or enter the contact ID.

To remove a member from the IM group, select Options > Remove.

To provide members with editing rights to the group, select Options > Add editor. Select a user from your IM contacts or enter the ID of the user. IM users with editing rights can edit group settings and invite other users to join the group or ban them from the group.

To remove editing rights from a group member, select Options > Remove.
To prevent IM users from joining the group, select Options > Add to banned list. Select a user from your IM contacts or enter the ID of the user.

To allow a banned user to join the group, select Options > Remove.

**Block users**

Select IM contacts > Options > Blocking options > View blocked list.

To find a blocked IM user, enter the first letters of the user's name. Matching names appear in a list.

To allow receiving messages from a blocked IM user, select Options > Unblock.

To prevent receiving messages from other IM users, select Options > Block new contacts. Select the IM user from your IM contacts or enter the user ID.

**IM application settings**

Select Options > Settings > Preferences and define the following settings:

- **Use screen name** — Change the name that identifies you in IM groups.
- **Show my availability** — Show your online status to all other IM users or your IM contacts only, or hide your online status.
- **Allow messages from** — Select to receive instant messages from all other IM users, your IM contacts only, or not to receive messages at all.
- **Allow invitations from** — Select to receive invitations to IM groups from all IM users, your IM contacts only, or not to receive invitations at all.
- **Msg. scrolling speed** — To adjust the speed at which new messages are displayed, scroll left or right.
- **Sort IM contacts** — List your IM contacts alphabetically or by their online status.
- **Availability reloading** — To update the online status of your IM contacts automatically, select Automatic.
- **Offline contacts** — Select if IM contacts with an offline status are shown in the IM contacts list.
- **Own message color** — Select the color of the instant messages you send.
- **Received msg color** — Select the color of the instant messages you receive.
- **Show date/time info** — View the receiving or sending time of each message in an IM conversation.
- **IM alert tone** — Select the tone that is played when you receive a new instant message.

**Special message types**

Select Menu > Communic. > Messaging.

You can receive special messages that contain data, such as operator logos, ringing tones, bookmarks, or internet access or e-mail account settings.

To save the contents of these messages, select Options > Save.
Service messages

Service messages are sent to your device by service providers. Service messages may contain notifications such as news headlines, services, or links through which the message content can be downloaded.

To define the service message settings, select Options > Settings > Service message.

To download the service or message content, select Options > Download message.

To view information about the sender, web address, expiration date, and other details of the message before downloading it, select Options > Message details.

Send service commands

You can send a service request message (also known as a USSD command) to your service provider and request activation for certain network services. Contact your service provider for the service request text.

To send a service request message, select Options > Service command. Enter the service request text and select Options > Send.

Cell broadcast

Select Menu > Communic. > Messaging > Options > Cell broadcast.

With the cell broadcast network service, you can receive messages on various topics from your service provider, such as weather or traffic conditions in a particular region. For available topics and relevant topic numbers, contact your service provider. Cell broadcast messages cannot be received when the device is in the remote SIM mode. A packet data (GPRS) connection may prevent cell broadcast reception. Cell broadcast messages cannot be received in UMTS (3G) networks.

To receive cell broadcast messages, you may need to set the cell broadcast reception on. Select Options > Settings > Reception > On.

To view messages related to a topic, select the topic.

To receive messages related to a topic, select Options > Subscribe.

Tip: You can set important topics as hot topics. While the device is in the standby mode, you are notified when you receive a message related to a hot topic. Select a topic and select Options > Hotmark.

To add, edit or delete topics, select Options > Topic.

Messaging settings

Select Menu > Communic. > Messaging > Options > Settings.

Fill in all fields marked with Must be defined or with a red asterisk.

Your device may recognize the SIM card provider and configure the correct text message, multimedia message,
and GPRS settings automatically. If not, contact your service provider for the correct settings, order the settings from your service provider in a configuration message, or use the Settings wizard application.

Text message settings
Select Menu > Communic. > Messaging > Options > Settings > Text message.
Select from the following:

• **Message centers** — View the available message centers for your device, or create a new one.
• **Message center in use** — Select a message center to send the message.
• **Character encoding** — Select Reduced support to use automatic character conversion to another encoding system when available.
• **Receive report** — Select Yes if you want the network to send you delivery reports on your messages (network service).
• **Message validity** — Select how long the message center resends your message if the first attempt fails (network service). If the recipient cannot be reached within the validity period, the message is deleted from the message center.
• **Message sent as** — Convert the message to another format, such as Text, Fax, Paging, or E-mail. Change this option only if you are sure that your message center is able to convert text messages into these other formats. Contact your service provider.
• **Preferred connection** — Select the preferred method of connection when sending text messages from your device.

• **Reply via same center** — Select whether you want the reply message to be sent using the same text message center number (network service).

Multimedia message settings
Select Menu > Communic. > Messaging > Options > Settings > Multimedia message.
Select from the following:

• **Image size** — Select Small or Large to scale images in multimedia messages. Select Original to maintain the original image size.
• **MMS creation mode** — Select Restricted to have your device prevent you from including content in multimedia messages that may not be supported by the network or the receiving device. To receive warnings about including such content, select Guided. To create a multimedia message with no restrictions on attachment type, select Free. If you select Restricted, creating multimedia presentations is not possible.
• **Access point in use** — Select the default access point to connect to the multimedia message center. You may not be able to change the default access point if it is preset in your device by your service provider.
• **Multimedia retrieval** — Select Always automatic to receive multimedia messages always automatically, Auto in home netw. to receive notification of a new multimedia message that you can retrieve from the message center (for example, when you are traveling abroad and are outside your home network), Manual to retrieve multimedia messages from the message center.
manually, or Off to prevent receipt of any multimedia messages.

- **Allow anon. msgs.** — Select whether you want to receive messages from unknown senders.
- **Receive ads** — Select whether you want to receive messages defined as advertisements.
- **Receive report** — Select Yes to have the status of the sent message to be shown in the log (network service). Receiving a delivery report of a multimedia message that has been sent to an e-mail address may not be possible.
- **Deny report sending** — Select Yes to not send delivery reports from your device for received multimedia messages.
- **Message validity** — Select how long the messaging center tries to send the message (network service). If the recipient of a message cannot be reached within the validity period, the message is removed from the multimedia messaging center. **Maximum time** is the maximum amount of time allowed by the network.

### E-mail account settings

Select **Menu > Communic. > Messaging > Options > Settings > E-mail.**

If you try to edit mailbox settings but have not set up an e-mail account, the mailbox guide opens and helps you set up your e-mail account.

If you have defined a mailbox, scroll to it and press the scroll key to edit the settings.

The settings available for editing may vary. Some settings may be preset by your service provider.

### Connection settings

To define the connection settings, select an e-mail account and **Options > Edit > Connection settings.** To edit the settings for the e-mail you receive, select **Incoming e-mail.** To edit the settings for the e-mail you send, select **Outgoing e-mail.**

### User settings

To define the user settings for an e-mail account, select the account, select **Options > Edit > User settings** and define the following settings:

- **My name** — Enter a name to appear before your e-mail address when you send e-mail.
- **Reply-to** — Select whether you want replies to be redirected to a different address. Select **On** and enter the e-mail address to which you want to direct the replies. You can only enter one address to which replies are directed.
- **Delete e-mails from** — Select whether you want to delete the e-mail messages only from the device or from both the device and the server. Select **Always ask** if you want to confirm from where the e-mail should be deleted every time you delete an e-mail.
- **Send message** — Select to send the e-mail immediately or when a connection is available.
- **Send copy to self** — Select whether you want to save a copy of the e-mail to your remote mailbox and to the address defined in **My e-mail address** in the **Outgoing e-mail** settings.
- **Include signature** — Select whether you want to attach a signature to your e-mail messages.
• **New e-mail alerts** — Select whether you want to be notified of a new received e-mail message with a tone and a note.

**Retrieval settings**

To define the retrieval settings, select the e-mail account, select **Options > Edit > Retrieval settings** and define the following settings:

• **E-mail to retrieve** — Select whether you want to retrieve only the e-mail header information such as sender, subject and date, e-mail, or e-mail with attachments. This setting is for POP3 mailboxes only.

• **Retrieval amount** — Select the number of e-mail messages you want to retrieve from the remote server to your mailbox.

• **IMAP4 folder path** — Define the folder path for folders to be subscribed. This setting is for IMAP4 mailboxes only.

• **Folder subscriptions** — Subscribe to other folders in the remote mailbox and retrieve content from those folders. This setting is for IMAP4 mailboxes only.

**Automatic retrieval settings**

To define the automatic retrieval settings for an e-mail account, select the account and **Options > Edit > Automatic retrieval**, and define the following settings:

• **E-mail retrieval** — Select **Enabled** to retrieve new e-mail messages automatically from your remote mailbox, or **Only in home netw.** to retrieve new e-mail messages automatically from your remote mailbox only when you are in your home network and not, for example, traveling.

• **E-mail notifications** — Receive notifications on received e-mail.

---

**Service message settings**

Select **Menu > Communic. > Messaging > Options > Settings > Service message.**

To receive service messages from service providers, select **Service messages > On.**

To select how to download services and service message content, select **Download messages > Automatically** or **Manually.** If you select **Automatically**, you may still need to confirm some downloads since not all services can be downloaded automatically.

**Cell broadcast settings**

Select **Menu > Communic. > Messaging > Options > Settings > Cell broadcast.**

To receive cell broadcast messages, select **Reception > On.**

To select the languages in which you want to receive cell broadcast messages, select **Language.**

To display new topics in the cell broadcast topics list, select **Topic detection > On.**

**Other settings**

Select **Menu > Communic. > Messaging > Options > Settings > Other.**

Select from the following:

• **Save sent messages** — Select whether to store sent messages in the Sent folder.
• **Number of saved msgs.** — Enter the number of sent messages to save. When the limit is reached, the oldest message is deleted.

• **Memory in use** — Select where to save your messages. You can save messages to the memory card only if a memory card is inserted.

• **Folder view** — Define how you want the messages in Inbox to be shown.
Internet

With your new Eseries device you can browse both the internet and your company's intranet, and download and install new applications to your device. You can also use your device as a modem and connect your PC to the internet.

Web

Select Menu > Web.

To browse the web (network service), you need to configure the internet access point settings. If you are using a data call or GPRS connection, your wireless network must support data calls or GPRS, and the data service must be activated for your SIM card.

Tip: You may receive the internet access point settings from your service provider as a special text message or from the service provider's web pages. You can also enter the internet access point settings manually. See "Internet access points," p. 65.

Check the availability of services, pricing, and fees with your service provider. Service providers also give you instructions on how to use their services.

Connection security

If the security indicator (🔒) is displayed during a connection, the data transmission between the device and the internet gateway or server is encrypted. The security icon does not indicate that the data transmission between the gateway and the content server (or place where the requested resource is stored) is secure. The service provider secures the data transmission between the gateway and the content server.

Security certificates may be required for some services, such as banking services. You are notified if the identity of the server is not authentic or if you do not have the correct security certificate in your device. For more information, contact your service provider.

Browse the web

To browse the web, select a bookmark or enter the web address manually and select Go to. Use only services that you trust and that offer adequate security and protection against harmful software.

Tip: When you start to enter the address, the addresses of the pages you have previously visited that match your input are displayed. To open a page, scroll to its address and press the scroll key.

To move on a web page, use the scroll key, which is shown as a pointer on the page. When you move the pointer over a link, the pointer changes into a hand. Press the scroll key to open the link. On a web page, new links usually appear...
underlined in blue and previously visited links in purple. Images that act as links have a blue border around them. The addresses of the pages you visit are saved in the Auto. bookmarks folder.

Bookmarks
To access the bookmarks view while browsing, select Options > Bookmarks. To view a bookmarked web page, select the bookmark.

To browse to another web page, select Options > Go to web address, enter the web address, and select Go to.

To add a bookmark while browsing, select Options > Save as bookmark.

To organize your bookmarks, in the bookmarks view, select Options > Bookmark manager. You can move and edit bookmarks, and create new folders.

Clear the cache
A cache is a memory location that is used to store data temporarily. If you have tried to access or have accessed confidential information requiring passwords, empty the cache after each use. The information or services you have accessed are stored in the cache.

To empty the cache, select Options > Clear privacy data > Clear cache.

Feeds and blogs
Select Menu > Web > Web feeds.

Feeds usually contain headlines and articles, often about recent news or other topics. Blog is a shortening of weblog, which is a continuously updated web diary.

To download a feed or blog, scroll to it and press the scroll key.

To add or edit a feed or blog, select Options > Manage feed > New feed or Edit.

End a connection
To end the connection and view the browser page offline, select Options > Tools > Disconnect. To end the connection and close the browser, select Options > Exit.

Web settings
Select Menu > Web > Options > Settings.

The web settings are divided into four groups:
- General contains access point, home page, and browsing security settings.
- Page contains imaging, audio and pop-up settings.
- Privacy contains settings related to your privacy.
- Web feeds contains settings related to web feeds and blogs.

© 2010 Nokia. All rights reserved.
Browse the intranet

Select Menu > Office > Intranet.

To browse your company's intranet, you must create a company-specific VPN policy. Select Menu > Tools > Settings > Connection > VPN.

To connect to the intranet, open the Intranet application, select the connection method and Options > Connect.

To define which VPN profile to use in the connection, select Options > Use other VPN policy.

To define the settings for the intranet connection, select Options > Settings.

Internet access points

An internet access point is a collection of settings, which define how the device creates a data connection to the network. To use e-mail and multimedia services or to browse web pages, you must first define access points for these services.

Some or all access points may be preset for your device by your service provider, and you may not be able to create, edit or remove them.

Set up an internet access point for packet data (GPRS)

1. Select Menu > Tools > Settings > Connection > Access points.

2. Select Options > New access point to create a new access point, or select an existing access point from the list and then Options > Duplicate access point to use the access point as a basis for the new one.

3. Define the following settings.
   - Connection name — Enter a descriptive name for the connection.
   - Data bearer — Select Packet data.
   - Access point name — Enter the name for the access point. The name is usually provided by your service provider.
   - User name — Enter your user name if required by the service provider. User names are often case-sensitive and provided by your service provider.
   - Prompt password — Select Yes to enter your password each time you log into a server or No to save the password in your device memory and automate the login.
   - Password — Enter your password if required by the service provider. The password is often case-sensitive and provided by the service provider.
   - Authentication — Select Secure to send your password always encrypted, or Normal to send your password encrypted when possible.
• **Homepage** — Enter the web address of the page you want to display as the home page when you use this access point.

4. After defining the settings, select **Options > Advanced settings** to define the advanced settings or **Back** to save the settings and exit.

### Advanced internet access point settings for packet data (GPRS)

Select **Menu > Tools > Settings > Connection > Access points**.

After setting up a basic internet access point for packet data (GPRS), select **Options > Advanced settings** and define the following advanced settings:

- **Network type** — Select **IPv4** or **IPv6** as the internet protocol type. The internet protocol defines how data is transferred to and from your device.
- **Phone IP address** — Enter the IP address of your device. Select **Automatic** to have the network provide the device IP address. This setting is shown only if you select **Network type > IPv4**.
- **DNS address** — Select **Primary DNS address** and **Secondary DNS address** and enter their IP addresses, if required by your service provider. Otherwise, the name server addresses are provided automatically.
- **Proxy server address** — Enter the address of the proxy server. Proxy servers are intermediate servers used by some service providers between a browsing service and its users. These servers may provide additional security and speed up access to the service.

### Set up an access point for WLAN manually

1. Select **Menu > Tools > Settings > Connection > Access points**.

2. Select **Options > New access point** to create a new access point, or select an existing access point from the list and then **Options > Duplicate access point** to use the access point as a basis for the new one.

3. Define the following settings.
   - **Connection name** — Enter a descriptive name for the connection.
   - **Data bearer** — Select **Wireless LAN**.
   - **WLAN network name** — To enter the service set identifier (SSID), that is, the name that identifies the specific WLAN, select **Enter manually**. To select the network from the WLANs in range, select **Search for networks**.
   - **Network status** — Select **Hidden** if the network you are connecting to is hidden or **Public** if it is not hidden.
   - **WLAN network mode** — If you select **Infrastructure**, devices can communicate with each other and with wired LAN devices through a WLAN access point. If you select **Ad-hoc**, devices can send and receive data directly with each other, and no WLAN access point is needed.
   - **WLAN security mode** — You must select the same security mode that is used in the WLAN access point. If you select WEP (wired equivalent privacy), 802.1x or WPA/WPA2 (Wi-Fi protected access), you must also configure the relevant additional settings.
• **WLAN security settings** — Edit the security settings for the selected security mode.
• **Homepage** — Enter the web address of the page you want to display as the home page when you use this access point.

To set up a WLAN access point automatically, use the WLAN wizard. Select **Menu > Connectivity > WLAN wiz.**

### Advanced access point settings for WLAN

Select **Menu > Tools > Settings > Connection > Access points.**

After setting up a basic access point for WLAN, select **Options > Advanced settings** and define the following advanced settings:

- **IPv4 settings** — Enter the device IP and name server addresses for the IPv4 internet protocol.
- **IPv6 settings** — Select or enter the name server addresses for the IPv6 internet protocol.
- **Ad-hoc channel** — The channel is usually chosen automatically. To enter the channel number (1-11) manually, select **User defined.**
- **Proxy server address** — Enter the proxy server address.
- **Proxy port number** — Enter the proxy server port number.

---

**Connect PC to web**

You can use your device to connect your PC to the web.

1. Connect the data cable to the USB connectors of your device and your PC.
2. Select **Connect PC to web.** The necessary software is automatically installed from your device to the PC.
3. Accept the installation in your PC. Accept also the connection, if prompted. When the connection to the web is established, the web browser of your PC opens.

You must have administrator rights to your PC, and the autorun option enabled in the PC.
Traveling

Need directions? Looking for a restaurant? Your Eseries device has the tools to get you where you want to be.

About GPS and satellite signals

To use GPS, you need a compatible GPS receiver. Use Bluetooth connectivity to connect to the GPS receiver. To start using a compatible GPS receiver with Bluetooth connectivity, select Menu > Connectivity > Bluetooth.

A GPS terminal receives low-power radio signals from the satellites and measures the travel time of the signals. From the travel time, the GPS receiver can calculate its location to the accuracy of meters.

The Global Positioning System (GPS) is operated by the government of the United States, which is solely responsible for its accuracy and maintenance. The accuracy of location data can be affected by adjustments to GPS satellites made by the United States government and is subject to change with the United States Department of Defense civil GPS policy and the Federal Radionavigation Plan. Accuracy can also be affected by poor satellite geometry. Availability and quality of GPS signals may be affected by your location, buildings, natural obstacles and weather conditions. GPS signals may not be available inside buildings or underground and may be impaired by materials such as concrete and metal.

GPS should not be used for precise location measurement, and you should never rely solely on location data from the GPS receiver and cellular radio networks for positioning or navigation.

The trip meter has limited accuracy, and rounding errors may occur. Accuracy can also be affected by availability and quality of GPS signals.

To enable or disable different positioning methods, such as Bluetooth GPS, select Menu > Tools > Settings > General > Positioning > Positioning methods.

About satellite signals

If your device cannot find the satellite signal, consider the following:

• If you are indoors, go outdoors to receive a better signal.
• If you are outdoors, move to a more open space.
• If the weather conditions are bad, the signal strength may be affected.
• Establishing a GPS connection may take from a couple of seconds to tens of minutes.

Satellite status

To check how many satellites your device has found, and whether your device is receiving satellite signals, select Menu > Tools > GPS data > Position > Options > Satellite status. If your device has found satellites, a bar for each satellite is shown in the satellite info view. The longer...
the bar, the stronger the satellite signal. When your device has received enough data from the satellite signal to calculate the coordinates of your location, the bar turns black. Initially, your device must receive signals from at least four satellites to be able to calculate the coordinates of your location. When the initial calculation has been made, it may be possible to continue calculating the coordinates of your location with three satellites. However, the accuracy is generally better when more satellites are found.

Positioning settings

Select Menu > Tools > Settings > General > Positioning.

To use a specific positioning method to detect the location of your device, select Positioning methods.

To select a positioning server, select Positioning server.

Maps

Select Menu > Tools > Maps.

With Maps, you can see your current location on the map, browse maps for different cities and countries, search for addresses and different points of interest, plan routes from one location to another, and save locations and send them to compatible devices. You can also purchase licenses for extra services, such as travel guides, traffic information and navigation service with voice guidance. These services are not available for all countries or regions.

About Maps

To connect to the internet automatically when you start Maps, select Options > Tools > Settings > Internet > Go online at start-up > Yes.

To prevent automatic downloading of maps, select Options > Tools > Settings > Internet > Go online at start-up > No.

To set the device to ask your permission before connecting to the internet, select Options > Tools > Settings > Internet > Go online at start-up > Always ask.
To be informed when your device registers to a network other than your home network, select **Options > Tools > Settings > Internet > Roaming warning > On** (shown only when you are online). For details and roaming costs, contact your service provider.

**Tip:** To avoid data transfer costs, you can also use Maps without an internet connection, and browse the maps that are saved in your device or memory card.

Almost all digital cartography is inaccurate and incomplete to some extent. Never rely solely on the cartography that you download for use in this device.

---

**Move on a map**

The map coverage varies by country and region.

When you open Maps, the capital of the country you are in or the location that was saved from your last session is shown. The map of the location is also downloaded, if needed.

To zoom in to your GPS position or your last known location, press the function key and 0.

When the GPS connection is active, 🌊 shows your current location on the map.

To move on the map, scroll up, down, left or right with the scroll key. The map is oriented towards north by default.

To zoom in and out on the map, press the function key and *, or the function key and #.

When you browse the map on the display, a new map is automatically downloaded if you scroll to an area which is not covered by maps already downloaded. These maps are free of charge, but downloading may involve the transmission of large amounts of data through your service provider’s network. For more information on data transmission charges, contact your service provider. The maps are automatically saved in the device memory or on a compatible memory card (if inserted).

**Display indicators**

The GPS indicator 🌊 on the bottom right corner of the display shows the availability and strength of the satellite signal. One bar is one satellite. When the device tries to find a satellite, the bar is yellow. When the device receives enough data from the satellite to establish a GPS connection, the bar turns green. The more green bars, the stronger the GPS connection.

Initially, your device must receive signals from at least four satellites to calculate the coordinates of your location. After the initial calculation, signals from three satellites may be enough.

The data transfer indicator 🌊 shows the internet connection used and the amount of data transferred since the application started.

**Find locations**

To find a location in the city or area displayed on the map, enter the full or partial address of the location in the search field and press the scroll key. To find a location in another city, enter the city and the full or partial address, such as **London Oxford Street**, and press the scroll key.
To find a specific address, or an address in another country, select **Options > Search > Addresses. Country/Region * and City or ZIP code** are mandatory.

**Tip:** To search for locations in another country using the search field, enter also the name of the country in the search field: **Rome Italy**.

To import a location address from the Contacts application, select **Options > Search > Addresses > Options > Select from Contacts**.

The search results are grouped by categories. To limit the search to one category, select **Options > Search**.

If you search for locations without an internet connection, the search results are limited to a radius of 50 km (31 miles).

**Plan a route**

To plan a route, select your start point on the map or search for a location, press the scroll key and select **Add to route**.

To define the destination and add more locations for your route, select **Options > Add route point**, and search for the location.

To switch between walking or driving mode, select **Options > Settings > Transport mode**

To show the route on the map, select **Options > Show route**.

To navigate to the destination by car or on foot, if you have purchased a license for these extra services, select **Options > Start driving** or **Start walking**.

To save the route, select **Options > Save route**.

**Walk to your destination**

The walking route ignores any possible limitations to car navigation, such as one-way streets and turn restrictions, and includes areas such as pedestrian zones and parks. It also prioritizes walkways and smaller roads, and omits highways and motorways.

The route is drawn to the map, and the arrow indicates the direction. The small dots show in which direction you are walking.

The length of a walking route is limited to a maximum of 50 kilometers (31 miles) and the traveling speed to a maximum of 30 km/h (18 miles/h). If the speed limit is exceeded, navigation stops and is resumed once the speed is back within limits.

There is no voice guidance available for pedestrian navigation.

To purchase a license for pedestrian navigation, select **Options > Extras > Walk**. The license is region-specific and can be used only in the selected area. You can pay for the license through a credit card or in your phone bill, if supported by your service provider.

**Tip:** To try out navigation for three days with a free license, press the scroll key, and select **Walk to**. Maps checks if a free license is available for your device. To activate the license, select **OK**. You can only use the license once.

To start navigating, select a location and **Walk to**.

To stop navigating, select **Stop**.

© 2010 Nokia. All rights reserved.
Drive to your destination

To purchase a license for pedestrian and car navigation with voice guidance, select **Options > Extras > Drive & Walk**. The license is region-specific and can be used only in the selected area.

**Tip:** To try out navigation for three days with a free license, press the scroll key, and select **Drive to**. Maps checks if a free license is available for your device. To activate the license, select **OK**. You can only use the license once.

To start navigating by car, select a location, press the scroll key, and select **Drive to**. When you use car navigation for the first time, you are asked to select the language of the voice guidance and download the related voice guidance files. To change the language later, in the main view, select **Options > Tools > Settings > Navigation > Voice guidance**. Voice guidance is not available for pedestrian navigation.

To switch between different views during the navigation, press the scroll key, and select **Maneuver view**, **Bird’s-eye view**, or **Arrow view**.

To repeat the voice guidance, select **Options > Repeat**.

To stop navigating, select **Stop**.

Traffic information

The real-time traffic information service provides information about traffic events that may affect your travel. The traffic information service is an extra service that you can purchase and download into your device, if available in your country or region.

To purchase a license for the traffic information service, select **Options > Extras > Traffic info**.

To view information about traffic events, select **Options > Traffic info**. The events are shown on the map as triangles and lines.

To view the details of an event, including possible rerouting options, select the event and **Options > Open**.

To update the traffic information, select **Update traffic info**.

Travel guides

Travel guides provide information about attractions, restaurants, hotels and other points of interest. Some guides contain videos and audio clips. The guides must be purchased and downloaded before use.

Downloading travel guides may involve the transmission of large amounts of data through your service provider’s network. Contact your service provider for information about data transmission charges.

To purchase and download travel guides, or to view downloaded ones, select **Options > Extras > Guides**.

To browse travel guide categories, select a category and press the scroll key. If there are subcategories, select a subcategory and press the scroll key again.

To download a new guide to your device, scroll to the desired guide and select **Yes**. You can pay for the guides through a
credit card or in your phone bill, if supported by your service provider.

**GPS data**

Select **Menu > Tools > GPS data**.

With GPS data, you can view your current location, find your way to a desired location, and track distance.

Select **Navigation** to view navigating information to your trip destination, **Position** to view positioning information about your current location, or **Trip distance** to view your traveling information such as the distance and duration you have traveled, and your average and maximum speeds.

The application must receive positioning information from at least three satellites to be used as a traveling aid.

The trip meter has limited accuracy, and rounding errors may occur. Accuracy can also be affected by availability and quality of GPS signals.

**Use GPS data**

To check the signal strength of the satellites that provide the positioning information necessary for navigation, open any of the three views and select **Options > Satellite status**.

To set a landmark or location as the destination of your trip, select **Navigation > Options > Set destination**. You can also enter the destination latitude and longitude coordinates.

To remove the destination set for your trip, select **Navigation > Options > Stop navigation**.

To save your current position as a landmark, select **Navigation or Position and Options > Save position**.

To activate the trip meter, select **Trip distance > Options > Start**. To stop the trip meter, select **Options > Stop**.

To reset all fields and start calculating the trip again, select **Trip distance > Options > Restart**.

To change the measuring system in use, select **Options > Settings > Measurement system > Metric or Imperial**.

To enter the altitude calibration to correct the altitude received from the positioning satellites, select **Options > Settings > Altitude calibration**.

**Landmarks**

Select **Menu > Tools > Landmarks**.

Landmarks are coordinates to geographic locations that you can save to your device for later use in different location-based services. You can create landmarks using a Bluetooth GPS accessory or network (network service).

**Create a landmark**

To create a landmark, select **Options > New landmark**. Select **Current position** to make a network request for the latitude and longitude coordinates of your current location, **Select from map** to select the location from a map, or **Enter**
manually to fill in necessary location information such as a name, category, address, latitude, longitude, and altitude.

To show the landmark on the map, select **Options > Show on map**.

**Edit landmarks**

To edit a landmark, select **Options > Edit > Options** and from the following:

- **Select categories** — Organize the landmark to a group of similar landmarks. Select a category to modify landmark information such as a name, category, address, latitude, longitude, and altitude.
- **Retrieve current position** — Request and automatically fill in the geographical latitude and longitude coordinates to make a landmark of your current location.
- **Delete** — Remove the landmark.
- **Landmark icon** — Change the icon of the landmark.
- **Show on map** — Show the landmark on the map.
- **Send** — Send the landmark to compatible devices.
- **Input options** — Edit text input settings, such as the writing language.
- **Editing options** — Edit the phone numbers and web addresses assigned to the landmark.

**Landmark categories**

You can see the landmark categories in two views: one lists categories that already contain landmarks, and the other lists all the categories your device has.

To view the landmarks that a category contains, scroll to the category and press the scroll key.

To create a new category, select **Options > Edit categories > Options > New category**.

To change to which categories a landmark belongs, open the landmarks tab. Scroll to the landmark, and select **Options > Edit > Options > Select categories**. Select the category or categories in which you want to include the landmark and **OK**.

**Receive landmarks**

Select **Menu > Communic. > Messaging**.

Open a message that contains a landmark you have received from another device. Scroll to the landmark and press the scroll key.

To save the landmark in your device, select **Options > Save**.

To forward the landmark to compatible devices, select **Options > Send**.

To show the received landmark on the map, select **Options > Show on map**.

To find out how to navigate to the received landmark, select **Options > Show route**.

© 2010 Nokia. All rights reserved.
Media

Your device contains a variety of media applications for both business and leisure time use. For more information, see the extended user guide on the web.

Camera

Select Menu > Media > Camera.

Capture an image

Your device supports an image capture resolution of up to 1600x1200 pixels. The image resolution in this guide may appear different.

To capture an image, use the display as a viewfinder, aim at your subject and press the scroll key. The device saves the image in Gallery, or in the folder you have defined.

Tip: To zoom in or out before capturing an image, scroll up or down.

If you do not want to keep the captured image, select Options > Delete. Select Back to return to the viewfinder to capture another image. Select Options > Go to Gallery to view the image in Gallery.

Select Options > Flash to always use flash, never use it, or use it automatically according to surrounding light conditions.

If the light is dim, select Options > Night mode > On before capturing an image.

To adjust the image, select Options > Adjust > White balance or Color tone.

To capture images in a sequence, select Options > Sequence mode. The camera captures six images in a row.

To capture timed images, select Options > Self-timer and the desired time-out. The camera captures an image after the time-out has passed.

Tip: To access the various camera modes quickly, select Options > Show toolbar.

To view the captured images, select Menu > Media > Gallery > Images.

Record a video clip

1. To start recording a video clip, press the scroll key. The remaining recording time is shown at the top of the display.
2. To pause the recording, select Pause; to resume the recording, select Continue.
3. To stop the recording, select **Stop**. The device saves the clip in Gallery, or in the folder you have defined.

4. If you do not want to keep the recorded video clip, select **Options > Delete**. Select **Back** to return to the viewfinder to record another video clip. Select **Options > Play** to view the video clip in the RealPlayer application.

**Camera settings**

Select **Options > Settings**.

To adjust image quality, to select whether images remain on the display after capturing them, and to change resolution, default name, or memory in which to save your new images, select **Image**.

To change the length, resolution and default name of the videos you record or the memory in which to save them, select **Video**.

**Nokia Podcasting 🎧**

Select **Menu > Media > Podcasting**.

Download podcasts to your device and listen them.

**Play and manage podcasts**

Podcasting delivers audio or video content over the internet for playback on mobile devices and PCs.

With the Nokia Podcasting application, you can search, discover, subscribe, and download podcasts over the air; and play, manage, and share podcasts with your device.

Define the connection and downloading settings before using the application. Select **Options > Settings > Connection and Download**.

To search for new podcast episodes to subscribe to, select **Directories**.

To search for podcasts using keywords and podcast show titles, select **Search**.

To display the available episodes from the selected podcast, open the **Podcasts** folder and select **Open**.

To download the selected episode, select **Download**.

To play the downloaded episode, select **Play**.

To update the selected podcast or marked podcasts, for a new episode, select **Options > Update**.

To open the web site of the podcast (network service), select **Options > Open web page**.

Some podcasts provide the opportunity to interact with the creators by commenting and voting. To connect to the internet to do this, select **Options > View comments**.

**Directories**

Select **Directories**.

Directories help you find new podcast episodes to which to subscribe.
Contents of the directories change. Select the desired directory folder to update it (network service). The color of the folder changes, when the update is complete.

To subscribe to a podcast, scroll to the podcast title and select Update. After you have subscribed to episodes of a podcast, you can download, manage, and play them in the podcasts menu.

To add a new directory or folder, select Options > New > Web directory or Folder. Select a title, URL of the .opml (outline processor markup language) file, and Done.

To import an .opml file stored on your device, select Options > Import OPML file.

To save a received .opml file, open the file to save the file into the Received folder in Directories. Open the folder to subscribe to any of the links to add to your podcasts.

Search podcasts

Search helps you find podcasts by keyword or title.

The search engine uses the podcast search service you set up in Podcasting > Options > Settings > Connection > Search service URL.

To search for podcasts, select Search, and enter the desired keywords.

Tip: Search looks for podcast titles and keywords in descriptions, not specific episodes. General topics, such as football or hip-hop, usually give better results than a specific team or artist.

To subscribe to selected channels and add them to your podcasts, select Subscribe.

To start a new search, select Options > New search.

To see the details of a podcast, select Options > Description.

Podcasting settings

To edit the connection settings, select Options > Settings > Connection.

To edit the download settings, select Options > Settings > Download.

To restore the default settings, open the corresponding settings and select Options > Restore default.

Music player

Select Menu > Media > Music player.

Music player supports files formats such as AAC, AAC+, eAAC+, MP3, and WMA. Music player does not necessarily support all features of a file format or all the variations of file formats.

You can transfer music from other compatible devices to your device. See "Transfer music from a computer," p. 78.

Play a song or a podcast episode

To add all available songs and podcasts to the music library, select Options > Refresh.
To play a song or a podcast episode, select **Music** or **Podcasts** and the desired category, then scroll to the song or podcast episode and press the scroll key.

To adjust the volume, scroll up or down.

To pause playback, press the scroll key; to resume, press the scroll key again. To stop playback, scroll down.

To fast-forward or rewind, press and hold the scroll key to the right or left.

To go to the next item, scroll right. To return to the beginning of the item, scroll left. To skip to the previous item, scroll left again within 2 seconds after a song or podcast has started.

To return to the home screen and leave the player playing in the background, press the end key.

**Playlists**

To view and manage playlists, select **Music** > **Playlists**.

To create a new playlist, select **Options** > **Create playlist**.

To add songs to the playlist, select the song and **Options** > **Add to a playlist** > **Saved playlist** or **New playlist**.

To reorder songs in a playlist, scroll to the song you want to move, and select **Options** > **Reorder list**.

**Nokia Music Store**

Select **Menu** > **Media** > **Music store**.

In the Nokia Music Store (network service) you can search, browse, and purchase music to download to your device. To purchase music, you need to register for the service.

To check the Nokia Music Store availability in your county, visit music.nokia.com.

To find more music in the different categories, select **Options** > **Find in Music store**.

To select the access point to use with the Music Store, select **Default acc. pt.**.

**Transfer music from a computer**

You can use the following methods to transfer music:

- To install Nokia Ovi Player to manage and organize your music files, download the PC software from www.ovi.com, and follow the instructions.

- To view your device on a computer as a mass memory device where you can transfer any data files, make the connection with a compatible USB data cable or Bluetooth connectivity. If you are using a USB data cable, select **Mass storage** as the connection mode.

- To synchronize music with Windows Media Player, connect a compatible USB data cable, and select **Media transfer** as the connection mode.

To change the default USB connection mode, select **Menu** > **Connectivity** > **USB and USB connection mode**.
Preset frequency settings

Select Menu > Media > Music player > Options > Go to Now playing > Options > Equalizer.

To use a preset frequency setting when playing music, select the frequency setting you want to use and select Options > Activate.

To modify the frequency of a preset setting, select Options > Edit, select a frequency band, and scroll up or down to increase or decrease its value. You hear your frequency adjustment immediately in the playback.

To reset the frequency bands to their original values, select Options > Reset to defaults.

To create your own frequency setting, select Options > New preset. Enter a name for the frequency setting. Scroll up or down to move between the frequency bands and set the frequency on each band.

Share images online

To upload a file from Gallery to the online service, select Menu > Gallery, select the desired file and Options > Send > Post to web.

Recorder

Select Menu > Media > Recorder.

With Recorder, you can record up to 60 minutes of a voice memo, save the voice recording as a sound clip, and play the sound clip. Recorder supports the AMR file format.

You can also press the voice key to open the Recorder application. If you have logged in to push to talk, the voice key works as a push-to-talk key and does not open Recorder.

Record a sound clip

To record a sound clip, select Options > Record sound clip. Select Pause to pause the recording and Record to resume recording. When you finish recording, select Stop. The sound clip is automatically saved to the Sound clips folder in Gallery.
Play a recording

To listen to the sound clip that you just recorded, select Play. The progress bar displays the playing time, position, and length of the clip. Select Stop to cancel the playback.

To pause the playback of a recorded clip, select Pause. Playback resumes when you select Play.

Recorder settings

Recordings are automatically saved to the device memory unless you change the default location. Recordings that you create or receive after you change the settings are affected.

To change the default location of saved recordings, select Options > Settings > Memory in use.

To define the recording quality, select Options > Settings > Recording quality. If you select High, the sound clip you record is in waveform file format (.wav) and the maximum length for the clip is 60 minutes. If you select MMS compatible, the sound clip you record is in adaptive multirate file format (.amr), and the maximum length for the clip is one minute.

Gallery 📷

Select Menu > Media > Gallery.

Use Gallery to access and use different types of media, including images, videos, music and sounds. All viewed images and videos and all received music and sounds are automatically saved to Gallery. Sound clips are opened in the Music player and video clips and streaming links in the RealPlayer application. Images are opened in the image viewer.

Work with media files and folders

To open a file or a folder, select the file or folder.

To create a new folder, select a file and Options > Organize > New folder. You cannot create folders within folders.

To copy or move files, select a file and Options > Organize > Move to folder, New folder, Move to memory card, Copy to memory card, Copy to phone mem., or Move to phone mem..

To download files into Gallery using the browser, select Downl. graphics, Downld. videos, or Downld. sounds. The browser opens, and you can choose a bookmark or enter the address for the download site.

To search for a file, select Options > Find. Write the item you are searching for. Files that match the search are displayed.

View images

To open an image for viewing, select Options > Open.

To open the next or previous image for viewing, scroll right or left.
To enlarge the image on the display, select *Options > Zoom in*. To reduce the image on the display, select *Zoom out*. To view the image in full screen size, select *Options > Full screen*. To return to normal view, select *Options > Normal screen*.

To rotate the image, select *Options > Rotate*. Select *Right* to rotate the image clockwise by 90 degrees, or select *Left* to rotate the image counterclockwise by 90 degrees.

**Manage image files**

To view detailed information about the image, select *Options > View details*.

To send the image, select *Options > Send* and the method for sending.

To rename the image, select *Options > Rename*.

To set the image as the display background, select *Options > Use image > Set as wallpaper*.

To add the image to a contact, select *Options > Use image > Assign to contact*. The Contacts application opens, and you can select the contact for the image.

**RealPlayer**

Select *Menu > Media > RealPlayer*.

RealPlayer plays video clips and audio files that are stored in the device memory or on a memory card, transferred to your device from an e-mail message or a compatible computer, or streamed to your device over the web. Supported formats include MPEG-4, MP4 (not streaming), 3GP, RV, RA, AMR, and Midi. RealPlayer does not necessarily support all variations of a media file format.

**Play video clips and stream links**

To play a video clip or audio file, select *Options > Open > Most recent clips* to play one of the six clips you most recently played, or *Saved clip* to play a clip or open a web link. Select *Play*.

To play streaming media, select a web link that points to a clip and select *Play*; or connect to the web, browse to a video clip or audio file and select *Play*. RealPlayer recognizes two kinds of links: an rtsp:// URL and an http:// URL that points to a RAM file. Before the content begins streaming, your device must connect to a web site and buffer the content. If a network connection problem causes a playback error, RealPlayer attempts automatically to reconnect to the internet access point.

To adjust the volume during playback, scroll right or left. To fast-forward during playback, scroll up and hold. To rewind during play, scroll down and hold.

To stop the playback or streaming, select *Stop*. Buffering or connecting to the streaming site stops, the playback of the clip stops, and the clip rewinds to the beginning.

To download video clips from the web, select *Options > Download videos*.

To view the video clip in full-screen size, select *Options > Play in full screen*. Full screen increases the size of the video.
to cover the maximum video area possible while the aspect ratio is maintained.

Send audio files and video clips
To transfer a media clip to a compatible device, select Options > Send. Select the sending method.
To send a media clip inside a message, create a multimedia message, select a clip to attach and Insert object > Video clip or Sound clip.

View information about a media clip
To view the properties of a video clip, audio file or web link, select Options > Clip details. Information may include for example the bit rate or the internet link of a streaming file.
To set on file protection for a media clip, select Options > Clip details > Status > Options > Change. File protection prevents others from changing a file.

RealPlayer settings
You may receive RealPlayer settings in a message from your service provider.
To define the settings manually, select Options > Settings > Video or Streaming.

Flash player
Select Menu > Media > Flash Player.
With Flash player, you can view, play and interact with flash files made for mobile devices.

Manage flash files
To view the properties of a video clip, audio file or web link, select Options > Clip details. Information may include for example the bit rate or the internet link of a streaming file.
To set on file protection for a media clip, select Options > Clip details > Status > Options > Change. File protection prevents others from changing a file.

RealPlayer settings
You may receive RealPlayer settings in a message from your service provider.
To define the settings manually, select Options > Settings > Video or Streaming.

Radio
Select Menu > Media > Radio.
The quality of the radio broadcast depends on the coverage of the radio station in that particular area.
The FM radio depends on an antenna other than the wireless device antenna. Attach a compatible headset or enhancement to the device for the FM radio to function properly.

Listen to the radio
To search for a station, select \( \uparrow \) or \( \downarrow \). To set the frequency manually, select Options > Manual tuning.

To view available stations based on location, select Options > Station directory (network service).

To save the current station to your station list, select Options > Save station.

To select a previously saved radio station, select \( \uparrow \) or \( \downarrow \).

To adjust the volume, scroll left or right.

To switch from headset use to listening to the radio through the loudspeaker, select Options > Activate loudspeaker.

To return to the home screen and leave the FM radio playing in the background, select Options > Play in background.

View visual content
To check availability and costs, and to subscribe to the service, contact your service provider.

Before you can view visual content, you must have an internet access point defined at Menu > Tools > Settings > Connection > Access points.

1. To view available visual content for a tuned station, select Options > Start visual service. If the visual radio service ID has not been saved for the station, enter it or select Retrieve to search for it in the station directory (network service).

2. Select the location nearest to you from the station directory. If your device finds a station that matches the tuned frequency, its visual service ID is displayed. To view the visual content, select OK.

Saved stations
To open the list of your saved stations, select Options > Stations.

To listen to a saved station, select Options > Station > Listen.

To view available visual content for a station with the Visual Radio service, select Options > Station > Start visual service.

To change the station details, select Options > Station > Edit.

Radio settings
Select Options > Settings and from the following:

- **Start-up tone** — Select whether a tone is played when the application is started.
- **Auto-start service** — Select Yes to have the Visual Radio service start automatically when you select a saved station that offers the Visual Radio service.
• **Access point** — Select the access point used for the data connection. You do not need an access point to use the application as an ordinary FM radio.

### Internet radio

Select **Menu > Media > Internet radio**.

### Listen to internet radio stations

**Warning:** Listen to music at a moderate level. Continuous exposure to high volume may damage your hearing. Do not hold the device near your ear when the loudspeaker is in use, because the volume may be extremely loud.

To listen to a radio station on the internet, select a station from the station directory, search stations by their name from the Nokia Internet Radio service, or select **Options > Add station manually**. When you have found the correct station, select **Listen**.

To stop the playback, press the scroll key. To resume the playback, press the scroll key again.

To adjust the volume, keep the function key pressed down and scroll up or down.

To view station information, select **Options > Station information** (not available if you have saved the station manually).

If you are listening to a station saved in your favorites, scroll left or right to listen to the previous or next saved station.

**Tip:** You can browse for station links with the Web application. Compatible links are automatically opened in the Internet radio application.

### Search for stations

To search for radio stations in the Nokia Internet Radio service by their name, select **Search**. Enter a station name or the first letters of it in the search field, and select **Search**.

To listen to the station, select **Listen**.

To save the station to your favorites, select **Options > Add to Favorites**.

To make another search, select **Options > Search again**.

### Save stations

To view and listen to your favorite stations, select **Favorites**.

To add a station manually to favorites, select **Options > Add station manually**. Enter the web address of the station and a name that you want to appear in the favorites list.

To add the currently playing station to favorites, select **Options > Add to Favorites**.

To view station information, to move a station up or down in the list or to delete a station from the favorites, select **Options > Station** and the desired option.
To view only stations beginning with particular letters or numbers, start entering the characters. Matching stations are displayed.

**Internet radio settings**

To select the default access point to connect to the network, select **Options > Settings > Default access point**. Select **Always ask** if you want the device to ask for the access point every time you open the application.

To change the connection speed for GPRS packet data connections, select **Options > Settings > GPRS connection bitrate**.

To change the connection speed for 3G packet data connections, select **Options > Settings > 3G connection bitrate**.

To change the connection speed for WLAN connections, select **Options > Settings > Wi-Fi connection bitrate**.

The quality of the radio broadcast depends on the selected connection speed. The higher the speed, the better the quality. To avoid buffering, use the highest quality only with high speed connections.
Personalization

You can personalize your device by adjusting the various tones, background images, and screen savers, for example.

Profiles

Select Menu > Tools > Profiles.

You can adjust and customize the ringing tones, alert tones, and other device tones for different events, environments, or caller groups. The profile currently in use is shown at the top of the display on the home screen. However, if the active profile is Normal, only today's date is shown.

To create a new profile, select Options > Create new, and define the settings.

To customize a profile, select a profile and Options > Customize.

To change a profile, select a profile and Options > Activate. The Offline profile prevents your device from accidentally switching on, sending or receiving messages, or using wireless LAN, Bluetooth, or FM radio; it also closes any internet connection that may be in operation when the profile is selected. The Offline profile does not prevent you from establishing a wireless LAN or Bluetooth connection at a later time, or from restarting the FM radio, so comply with any applicable safety requirements when establishing and using these features.

To delete a profile that you created, select Options > Delete profile. You cannot delete the predefined profiles.

Select ringing tones

To set a ringing tone for a profile, select Options > Customize > Ringing tone. Select a ringing tone from the list, or select Download sounds to open a bookmark folder containing a list of bookmarks for downloading tones using the browser. Any downloaded tones are saved to Gallery.

To play the ringing tone for a selected contact group only, select Options > Customize > Alert for, and select the desired group. Phone calls coming from outside that group have a silent alert.

To change the message tone, select Options > Customize > Message alert tone.

Customize profiles

Select Options > Customize, and define the following:

- **Ringing tone** — Select a ringing tone from the list, or select Download sounds to open a bookmark folder containing a list of bookmarks for downloading tones using the browser. If you have two alternate phone lines in use, you can specify a ringing tone for each line.
• **Video call tone** — Select a ringing tone for video calls.
• **Say caller's name** — When you select this option and someone from your contacts list calls you, the device sounds a ringing tone that is a combination of the spoken name of the contact and the selected ringing tone.
• **Ringing type** — Select how you want the ringing tone to alert.
• **Ringing volume** — Select the volume level of the ringing tone.
• **Message alert tone** — Select a tone for received text messages.
• **E-mail alert tone** — Select a tone for received e-mail messages.
• **Vibrating alert** — Set the device to vibrate when you receive a call.
• **Keypad tones** — Set the volume level of the device keypad tones.
• **Warning tones** — Turn the warning tones on or off. This setting also affects the tones of some games and Java applications.
• **Alert for** — Set the device to ring only upon calls from phone numbers that belong to a selected contact group. Phone calls coming from outside that group have a silent alert.
• **Profile name** — You can give a name to a new profile or rename an existing profile. The General and Offline profiles cannot be renamed.

---

**Personalize the home screen**

Select **Menu > Tools > Modes**.

To change the name of the current home screen, select **Mode name**.

To select which applications and notifications you want to see on the home screen, select **Home screen applications**.

To change the theme of the home screen currently in use, select **Theme**.

To change the background image of the home screen currently in use, select **Wallpaper**.

To change from one home screen to another, select **Switch mode**.

---

**Change the display theme**

Select **Menu > Tools > Themes**.

To change the theme used in all applications, select the **General** folder.

To change the theme used in the main menu, select the **Menu view** folder.

To change the theme for a particular application, select the application-specific folder.
To change the background image of the home screen, select the **Wallpaper** folder.

To select an animation for the screen saver, select the **Power saver** folder.

## Download a theme

To download a theme, select **General** or **Menu view > Download themes**. Enter the link from which you want to download your theme. Once the theme is downloaded, you can preview, activate or edit it.

To preview a theme, select **Options > Preview**.

To start using the selected theme, select **Options > Set**.

## 3-D ringing tones 🎵

Select **Menu > Media > 3-D tones**.

To enable 3-D sound effects for ringing tones, select **3-D ringing tone effects > On**. Not all ringing tones support 3-D effects.

To change the 3-D effect that is applied to the ringing tone, select **Sound trajectory** and the desired effect.

To select the speed at which sound moves from one direction to another, select **Trajectory speed**. This setting is not available for all effects.

To adjust the amount of echo, select **Reverberation** and the desired effect.

To listen to the ringing tone with the 3-D effect, select **Options > Play tone**.

To adjust the volume of the ringing tone, select **Menu > Tools > Profiles > Options > Customize > Ringing volume**.
Nokia Office Tools support mobile business and enable effective communication with work teams.

Active notes

Select Menu > Office > Active notes.

Active notes allows you to create, edit and view different kinds of notes, for example, meeting memos, hobby notes or shopping lists. You can insert images, videos and sound in the notes. You can link notes to other applications, such as Contacts, and send notes to others.

Create and edit notes

To create a note, start writing.

To edit a note, scroll to it and press the scroll key.

To insert images, sound clips, video, business cards, web bookmarks and files, select Options > Insert object.

To add new items to the note, select Options > Insert new. You can record sound and video clips, and capture images.

To add boldface, italics or underlining to your text or change the font color, press and hold the shift key and use the scroll key to select the text. Then select Options > Text.

To send the image, select Options > Send.

To link a note to a contact, select Options > Link note to call > Add contacts. You can see the note on the display of your device when making a call to or receiving a call from the contact.

Settings for Active notes

Select Settings.

To save notes to your device memory, select Memory in use > Phone memory. To save them to a memory card, select Memory in use > Memory card.

To change the layout of active notes, select Change view > Grid. To view the notes as a list, select Change view > List.

To see a note in the background when making or receiving phone calls, select Show note during call > Yes.

Tip: If you temporarily do not want to see the notes during phone calls, select Show note during call > No. This way you do not have to remove the links between notes and contact cards.

Calculator

Select Menu > Office > Calculator.
This calculator has limited accuracy and is designed for simple calculations.

To make a calculation, enter the first number of the calculation. Select a function such as add or subtract from the function map. Enter the second number of the calculation and select \( = \). The calculator performs operations in the order they are entered. The result of the calculation remains in the editor field and can be used as the first number of a new calculation.

The device saves the result of the last calculation in its memory. Exiting the Calculator application or switching off the device does not clear the memory. To recall the last saved result the next time you open the Calculator application, select Options > Last result.

To save the numbers or results of a calculation, select Options > Memory > Save.

To retrieve the results of a calculation from the memory and use them in a calculation, select Options > Memory > Recall.

**File manager**

With File manager, you can manage the contents and properties of files and folders on your device memory and memory card. You can open, create, move, copy, rename, send, and search for files and folders. Copyright protection may prevent sending some files.

Open the device tab or the memory card tab.

To select multiple files, scroll to each file and select Options > Mark/Unmark > Mark.

To send the selected files, select Options > Send.

To move or copy files or folders to another folder, select Options > Move to folder or Copy to folder. Default folders such as Sound clips in Gallery cannot be moved.

To search for files, select Options > Find. Enter the search text and press the scroll key. The folders and files whose names contain the search text are displayed.

To view information about the selected file, select Options > View details. To view additional information about the file online, select Options > Additional details.

**Quickoffice**

**About Quickoffice**

Select Menu > Office > Quickoffice.

Quickoffice consists of Quickword for viewing Microsoft Word documents, Quicksheet for viewing Microsoft Excel worksheets, Quickpoint for Microsoft PowerPoint presentations, and Quickmanager for purchasing software. You can view Microsoft Office 2000, XP, 2003, and 2007 documents (DOC, XLS, and PPT file formats) with Quickoffice. If you have the editor version of Quickoffice, you can also edit files.

Not all file formats or features are supported.

**Converter**

Select Menu > Office > Converter.
The converter has limited accuracy, and rounding errors may occur.

**Convert measurements**

1. Scroll to the **Type** field and select **Options > Conversion type** to open a list of measures. Select the measure to use and select **OK**.
2. Scroll to the first **Unit** field and select **Options > Select unit**. Select the unit from which to convert and select **OK**. Scroll to the next **Unit** field and select the unit to which to convert.
3. Scroll to the first **Amount** field and enter the value to convert. The other **Amount** field changes automatically to show the converted value.

**Set base currency and exchange rate**

When you change base currency, you must enter new exchange rates because all previously set exchange rates are cleared.

Before you can make currency conversions, you must choose a base currency and add exchange rates. The rate of the base currency is always 1. The base currency determines the conversion rates of the other currencies.

1. To set the rate of exchange for the unit of currency, scroll to the **Type** field and select **Options > Currency rates**.
2. Scroll to the currency type and enter the exchange rate you would like to set per single unit of currency.
3. To change the base currency, scroll to the currency and select **Options > Set as base currency**.
4. Select **Done > Yes** to save the changes.

After you have inserted all the necessary exchange rates, you can make currency conversions.

**Zip manager**

With Zip manager, you can create new archive files to store compressed ZIP formatted files; add single or multiple compressed files or directories to an archive; set, clear, or change the archive password for protected archives; and change settings, such as compression level and file name encoding.

You can save the archive files in the device memory or on a memory card.

**PDF reader**

Select **Menu > Office > Adobe PDF**.

With PDF reader you can read PDF documents on the display of your device; search for text in the documents; modify settings, such as zoom level and page views; and send PDF files using e-mail.

© 2010 Nokia. All rights reserved.
Printing

You can print documents, such as files, messages, or web pages, from the device, preview a print job, define page layout options, select a printer, or print to a file. You may not be able to print all types of documents.

Print files

To configure a printer for your device, select **Menu > Office > Printers > Options > Add**. To set the printer as the default printer, select **Options > Printing options > Printers**, scroll to the printer and select **Options > Set as default**.

Before you print, make sure your device is properly connected to the printer.

To print a document, select **Options > Printing options > Print**.

To print to a file, select **Options > Printing options > Print > Print to file**, and determine the location for the file.

To change the printing options, select **Options > Printing options**. You can select the printer you want to use, the number of copies and the range of pages you want to print.

To change the page layout before printing, select **Options > Printing options > Page setup**. You can change the paper size and orientation, define the margins, and insert a header or a footer. The maximum length of the header and footer is 128 characters.

To preview a file or message before you print, select **Options > Printing options > Preview**.

Printing options

Open a document, such as a file or message, and select **Options > Printing options > Print**.

Define the following:
- **Printer** — Select an available printer from the list.
- **Print** — Select **All pages**, **Even pages**, or **Odd pages** as the print range.
- **Print range** — Select **All pages in range** or **Defined pages** as the page range.
- **Number of copies** — Select the number of copies to print.
- **Print to file** — Print to a file, and define the location for the file.

The available options may vary.

Printer settings

Select **Menu > Office > Printers**.

To add a new printer, select **Options > Add**.

Define the following:
- **Printer** — Enter a name for the printer.
- **Driver** — Select a driver for the printer.
- **Bearer** — Select a bearer for the printer.
- **Orientation** — Select the orientation.
- **Paper size** — Select the paper size.
- **Media type** — Select the media type.
- **Color mode** — Select the color mode.
• **Printer model** — Select the printer model. The available options may vary.

### Clock ☐

Select **Menu > Office > Clock**.

In Clock, you can view your local time and time zone information, set and edit alarms, or modify date and time settings.

### Alarm clock

Open the alarm clock tab.

To set an alarm, select **Options > New alarm**. When an alarm is active, ☐ is displayed.

To switch off the alarm, select **Stop**, or to stop the alarm for 5 minutes, select **Snooze**. If the alarm time is reached while the device is switched off, the device switches itself on and starts sounding the alarm tone. If you select **Stop**, the device asks whether you want to activate the device for calls. Select **No** to switch off the device or **Yes** to make and receive calls. Do not select **Yes** when wireless phone use may cause interference or danger.

To change the alarm time, select **Options > Reset alarm**.

To remove the alarm, select **Options > Remove alarm**.

### World clock

Open the world clock tab to check the time in different cities. To add a city to the world clock view, select **Options > Add city**.

To change the city that determines the time and date in your device, select **Options > Set as current city**. The city is displayed in the Clock main view, and the time in your device is changed according to the city selected. Check that the time is correct and matches your time zone.

The list of countries and territories included in the world clock application is based on time zones and does not imply sovereignty.

### Clock settings

Select **Options > Settings**.

To change the time or date, select **Time** or **Date**.

To change the clock shown on the home screen, select **Clock type > Analog** or **Digital**.

To allow the mobile phone network to update the time, date and time zone information to your device (network service), select **Network operator time > Auto-update**.

To change the alarm tone, select **Clock alarm tone**.

### Notes ☑

Select **Menu > Office > Notes**.

You can create and send notes to other compatible devices, and save received plain text files (.txt format) to Notes.
Write and send notes

To write a note, start entering the text. The note editor opens automatically.

To open a note, scroll to it and press the scroll key.

To send a note to other compatible devices, select **Options** > **Send**.

To synchronize or to define synchronization settings for a note, select **Options** > **Synchronization**. Select **Start** to initialize synchronization or **Settings** to define the synchronization settings for the note.

Nokia Wireless Keyboard

Wireless keyboards are available as separate enhancements. To set up the Nokia Wireless Keyboard or other compatible wireless keyboard supporting the Bluetooth Human Interface Devices (HID) profile for use with your device, use the Wireless keyboard application.

1. Activate Bluetooth connectivity on your device: select **Menu** > **Connectivity** > **Bluetooth** > **Bluetooth** > **On**. Make sure that you have set **My phone's visibility** > **Shown to all**.

2. Switch on the keyboard.

3. Select **Menu** > **Office** > **Wlss. keybd.**

4. To start searching for devices with Bluetooth connectivity, select **Options** > **Find keyboard**.

5. Select the keyboard from the list and press the scroll key to start the connection.

6. To pair the keyboard with your device, enter a passcode of your choice (1 to 9 digits) on the device and the same passcode on your keyboard.

7. If you are asked for a keyboard layout, select it from a list on your device.

When the name of the keyboard appears, its status changes to **Keyboard connected** and the indicator of your keyboard blinks slowly; the keyboard is ready for use.

For details on the operation and maintenance of your keyboard, see its user guide.
Connectivity

Your device offers several options to connect to the internet, a corporate intranet, or to another device or computer.

PC connections

You can use your mobile device with a variety of compatible PC connectivity and data communications applications. With Nokia Ovi Suite you can, for example, transfer files and images between your device and a compatible computer.

To use Ovi Suite with USB connection mode, select **PC Suite**.

For more information about Ovi Suite, see the support area at www.ovi.com.

Data cable

To avoid damaging the memory card, do not remove the data cable in the middle of a data transfer.

**Transfer data between your device and a PC**

1. Insert a memory card to your device, and connect the device to a compatible PC with the USB data cable.
2. When the device asks which mode is used, select **Mass storage**. In this mode, you can see your device as a removable hard drive in your computer.
3. Close the connection from the computer (for example, from an Unplug or Eject Hardware wizard in Windows) to avoid damaging the memory card.

To use Nokia Ovi Suite with your device, install Nokia Ovi Suite on your PC, connect the data cable, and select **PC Suite**.

To use your device to connect your PC to the web, connect the data cable and select **Connect PC to web**.

To synchronize the music in your device with Ovi Player, install the Ovi Player software on your PC, connect the data cable, and select **Media transfer**.

To change the USB mode you normally use with the data cable, select **Menu** > **Connectivity** > **USB** > **USB connection mode** and the desired option.

To set the device to ask for the mode each time you connect the USB data cable to the device, select **Menu** > **Connectivity** > **USB** > **Ask on connection** > **Yes**.

Bluetooth

Select **Menu** > **Connectivity** > **Bluetooth**.

**About Bluetooth**

Bluetooth technology in your device enables wireless connections between electronic devices within a range of 10
metres (33 feet). A Bluetooth connection can be used to send images, videos, text, business cards, calendar notes, or to connect wirelessly to devices that use Bluetooth technology.

Since devices using Bluetooth technology communicate using radio waves, your device and the other devices do not need to be in direct line-of-sight. The two devices only need to be within a maximum of 10 metres (33 feet) of each other, although the connection can be subject to interference from obstructions such as walls or other electronic devices.

Several Bluetooth connections can be active at a time. For example, if your device is connected to a headset, you can also transfer files to another compatible device at the same time.

This device is compliant with Bluetooth Specification 2.0 + EDR supporting the following profiles: Dial-Up Networking, Object Push, File Transfer, Handsfree, Headset, Basic Imaging, Remote SIM Access, Stereo Audio streaming, Generic Audio/Video Distribution, Audio/Video Remote Control, and Advanced Audio Distribution. To ensure interoperability between other devices supporting Bluetooth technology, use Nokia approved accessories for this model. Check with the manufacturers of other devices to determine their compatibility with this device.

Features using Bluetooth technology increase the demand on battery power and reduce the battery life.

---

**Send and receive data with Bluetooth**

1. When you activate Bluetooth for the first time, you are asked to give a name to your device. Give your device a unique name to make it easy to recognize if there are several Bluetooth devices nearby.

2. Select Bluetooth > On.

3. Select My phone's visibility > Shown to all or Define period. If you select Define period, you must define the time during which your device is visible to others. Your device and the name you entered can now be seen by other users with devices using Bluetooth technology.

4. Open the application where the item you want to send is stored.

5. Select the item and Options > Send > Via Bluetooth. The device searches for other devices using Bluetooth technology within range and lists them.

   **Tip:** If you have sent data using Bluetooth before, a list of the previous search results is displayed. To search for more Bluetooth devices, select More devices.

6. Select the device with which you want to connect. If the other device requires pairing before data can be transmitted, you are asked to enter a passcode.

When the connection has been established, Sending data is shown.

The Sent folder in the Messaging application does not store messages sent using Bluetooth connectivity.
To receive data using Bluetooth, select **Bluetooth > On** and **My phone’s visibility > Shown to all** to receive data from a non-paired device or **Hidden** to receive data from a paired device only. When you receive data through Bluetooth, depending on the settings of an active profile, a tone sounds, and you are asked if you want to accept the message in which the data is included. If you accept, the message is placed in the Inbox folder in the Messaging application.

**Tip:** You can access the files in the device or on the memory card using a compatible accessory that supports the File Transfer Profile Client service (for example, a laptop computer).

A Bluetooth connection is disconnected automatically after sending or receiving data. Only Nokia PC Suite and some enhancements such as headsets may maintain a connection even if not actively used.

**Pair devices**

Open the paired devices tab.

Before pairing, decide on your own passcode (1-16 digits) and agree with the user of the other device to use the same code. Devices that do not have a user interface have a fixed passcode. You need the passcode only when you connect the devices for the first time. After pairing, it is possible to authorize the connection. Pairing and authorizing the connection makes connecting quicker and easier, as you do not have to accept the connection between paired devices every time you establish a connection.

The passcode for remote SIM access must have 16 digits.

1. Select **Options > New paired device**. The device starts to search for Bluetooth devices within range. If you have sent data using Bluetooth before, a list of the previous search results is displayed. To search for more Bluetooth devices, select **More devices**.

2. Select the device with which you want to pair and enter the passcode. The same passcode must be entered to the other device as well.

3. Select **Yes** to make the connection between your device and the other device automatic, or **No** to confirm the connection manually every time a connection attempt is made. After pairing, the device is saved to the paired devices page.

To give a nickname to the paired device, select **Options > Assign short name**. The nickname is only displayed in your device.

To delete a pairing, select the device whose pairing you want to delete and **Options > Delete**. To delete all pairings, select **Options > Delete all**. If you are currently connected to a device and cancel the pairing with that device, pairing is removed immediately and the connection is ended.

To allow a paired device to connect automatically to your device, select **Set as authorized**. Connections between your device and the other device can be made without your knowledge. No separate acceptance or authorization is needed. Use this status for your own devices, such as your compatible headset or computer, or devices that belong to someone you trust. If you want to accept connection requests from the other device separately every time, select **Set as unauthorized**.

© 2010 Nokia. All rights reserved.
To use a Bluetooth audio enhancement such as a Bluetooth handsfree or headset, you need to pair your device with the enhancement. See the enhancement user guide for the passcode and further instructions. To connect to the audio enhancement, switch on the enhancement. Some audio enhancements connect automatically to your device. Otherwise open the paired devices tab, scroll to the enhancement and select Options > Connect to audio device.

Security tips
When you are not using Bluetooth connectivity, select Bluetooth > Off or My phone's visibility > Hidden. Do not pair with an unknown device.

SIM access profile
With the SIM access profile, you can access the SIM card of your device from a compatible car kit device. This way, you do not need a separate SIM card to access SIM card data and connect to the GSM network.

To use the SIM access profile, you need the following:
• Compatible car kit device that supports Bluetooth wireless technology
• Valid SIM card in your device

When the wireless device is in the remote SIM mode, you can only use a compatible connected accessory, such as a car kit, to make or receive calls.

Your wireless device will not make any calls, except to the emergency numbers programmed into your device, while in this mode.

To make calls, you must first leave the remote SIM mode. If the device has been locked, enter the lock code to unlock it first.

For more information about car kit devices and compatibility with your device, see the Nokia web site and your car kit user guide.

Use the SIM access profile
1. Select Menu > Connectivity > Bluetooth > Remote SIM mode > On.
2. Activate Bluetooth in the car kit.
3. Use your car kit to start a search for compatible devices. For instructions, see the user guide of your car kit.
4. Select your device from the list of compatible devices.
5. To pair the devices, enter the Bluetooth passcode shown on the display of the car kit to your device.

Tip: If you have already accessed the SIM card from the car kit with the active user profile, the car kit searches automatically for a device with the SIM card. If it finds your device, and automatic authorization is activated, the car kit automatically connects to the GSM network when you switch on the car ignition.

When you activate the remote SIM access profile, you can use applications on your device that do not need network or SIM services.

To make connections between your device and the car kit without separate acceptance or authorization, select
Menu > Connectivity > Bluetooth, and open the paired devices tab. Scroll to the car kit, press the scroll key, and enter the Bluetooth passcode. When the device asks to make the connection automatic, select Yes. If you select No, connection requests from this car kit must be accepted separately every time.

To end the remote SIM access connection from your device, select Menu > Connectivity > Bluetooth > Remote SIM mode > Off.

Wireless LAN

⚠️ Note: Using Wi-Fi may be restricted in some countries. For example, in France, you are only allowed to use Wi-Fi indoors. For more information, contact your local authorities.

Your device can detect and connect to a wireless local area network (WLAN). To use a WLAN, a network must be available in the location and your device must be connected to it.

WLAN connections

🌟 Important: Always enable one of the available encryption methods to increase the security of your wireless LAN connection. Using encryption reduces the risk of unauthorized access to your data.

To use WLAN, you must create an internet access point in a WLAN. Use the access point for applications that need to connect to the internet. A WLAN connection is established when you create a data connection using a WLAN access point. The active WLAN connection is ended when you end the data connection. You can also end the connection manually. See "Connection manager," p. 101.

You can use WLAN during a voice call or when packet data is active. You can only be connected to one WLAN access point device at a time, but several applications can use the same internet access point.

When the device is in the Offline profile, you can still use WLAN, if available. Remember to comply with any applicable safety requirements when establishing and using a WLAN connection.

If you move the device to another location within the WLAN and out of range of a WLAN access point, the roaming functionality can automatically connect your device to another access point that belongs to the same WLAN. As long as you remain within range of access points that belong to the same network, your device can stay connected to the network.

Tip: To check the unique media access control (MAC) address that identifies your device, for example to configure the MAC address of your device to a WLAN router, enter *#62209526# on the device keypad. The MAC address is shown on the device display.

See WLAN availability

To have your device show WLAN availability, select Menu > Tools > Settings > Connection > Wireless LAN > Show WLAN availability.

If WLAN is available, 🌐 is shown on the display.
Tip: You can also scan for networks in range.

**WLAN wizard**

Select **Menu > Connectivity > WLAN wiz.**

The WLAN wizard helps you find and connect to a wireless LAN. When you open the application, your device starts to scan for available WLANs and lists them.

To update the list of available WLANs, select **Options > Refresh.**

To mark up WLANs in the list of found networks, select **Filter WLAN networks.** The selected networks are filtered out the next time the application searches for wireless LANs.

To start or continue browsing the web using the access point of the WLAN, scroll to the desired network and select **Options > Start web browsing** or **Cont. web browsing.**

To disconnect the active connection to the WLAN, select **Options > Disconnect WLAN.**

To view the details of the WLAN, select **Options > Details.**

To save the access point of the WLAN, select **Options > Define access point.**

**Important:** Always enable one of the available encryption methods to increase the security of your wireless LAN connection. Using encryption reduces the risk of unauthorized access to your data.

**Use the wizard on the home screen**

On the home screen, the WLAN wizard shows the status of your WLAN connections and network searches. To view the available options, scroll to the row showing the status, and press the scroll key. Depending on the status, you can start the web browser using a WLAN connection, connect to your net call service, disconnect from a WLAN, search for WLANs, or set the network scanning on or off.

If WLAN scanning is off and you are not connected to any WLAN, **WLAN scanning off** is displayed on the home screen. To set scanning on and search for available WLANs, scroll to the row showing the status, and press the scroll key.

To start a search for available WLANs, scroll to the row showing the status, press the scroll key, and select **Search for WLAN.** To set WLAN scanning off, scroll to the row showing the status, press the scroll key, and select **Switch WLAN scan off.**

When **Start web browsing** or **Use for** is selected, the WLAN wizard automatically creates an access point for the selected WLAN. The access point can also be used with other applications requiring WLAN connection.

If you select a secured WLAN, you are asked to enter the relevant passcodes. To connect to a hidden network, you must enter the correct service set identifier (SSID).
To use the found WLAN for a net call connection, scroll to the row showing the status, and press the scroll key. Select Use for, the desired net call service, and the WLAN to be used.

Connection manager
Select Menu > Connectivity > Conn. mgr..

View and end active connections
To see the open data connections, select Active data connections.
To view detailed information about network connections, select a connection from the list and Options > Details. The type of information shown depends on the connection type.
To end the selected network connection, select Options > Disconnect.
To end all active network connections simultaneously, select Options > Disconnect all.

Search for WLAN
To search for WLANs available within range, select Available WLAN networks. The available WLANs are listed with their network mode (infrastructure or ad-hoc), signal strength, and network encryption indicators, and whether your device has an active connection with the network.

To view the details of a network, scroll to it and press the scroll key.
To create an internet access point for a network, select Options > Define access point.
Security and data management

Manage the data and software on your device, and take care of the security of the device and its contents.

**Important:** Your device can only support one antivirus application. Having more than one application with antivirus functionality could affect performance and operation or cause the device to stop functioning.

### Lock the device

To prevent access to the contents of your device, lock the device when in home screen. Press the power key, select **Lock phone** and enter your lock code. The default lock code is 12345. To unlock, press the left selection key, enter your lock code and press the scroll key.

To change the lock code, select **Menu > Tools > Settings > General > Security > Phone and SIM card > Lock code**. Enter the old code and then the new code twice. The new code can be 4-255 characters long. Both alphabets and digits can be used, and both uppercase and lowercase alphabets are possible.

You can also lock the device remotely by sending a text message to the device. To enable remote locking and to define the text for the message, select **Menu > Tools > Settings > General > Security > Phone and SIM card > Allow remote lock > Yes**. Enter the remote lock message and confirm the message. The message must be at least 5 characters long.

### Memory

There are two types of memory into which you can save data or install applications: device memory and memory card.

### Free memory

To see how much memory is currently in use, how much free memory remains, and how much memory is consumed by each data type, select **Menu > Options > Memory details > Phone memory or Memory card**.

**Tip:** To ensure that you have adequate memory, transfer data regularly to a memory card or computer or use File manager to delete files you no longer need.

After you install applications to a compatible memory card, installation files (.sis, .sisx) remain in the device memory. The files may use large amounts of memory and prevent you from storing other files. To maintain sufficient memory, use Nokia PC Suite to back up installation files to a compatible PC, then use the file manager to remove the installation files from the device memory. If the .sis file is a message attachment, delete the message from the Messaging inbox.
Memory card

Select Menu > Tools > Memory.

If you cannot use a memory card in your device, you may have the wrong type of memory card, the card may not be formatted for your device, or the card has a corrupted file system. Your Nokia device supports the FAT16 and FAT32 filesystem for memory cards.

MicroSDHC

This device uses microSD and microSDHC memory cards.

To ensure interoperability, use only compatible memory cards with this device. Check the compatibility of a memory card with its manufacturer or provider. Other memory cards than microSD and microSDHC cards are not compatible with this device. Using an incompatible memory card may damage the memory card as well as the device, and data stored on the incompatible card may be corrupted.

Use a memory card

To format a memory card for your device, select Options > Format memory card. When a memory card is formatted, all data on the card is lost permanently. Consult your retailer to find out if you must format the memory card before you can use it.

To change the name of the memory card, select Options > Memory card name.

Memory card security

Select Menu > Tools > Memory.

You can protect a memory card with a password to prevent unauthorized access. To set a password, select Options > Set password. The password can be up to 8 characters long and is case-sensitive. The password is stored in your device. You do not need to enter it again while you use the memory card on the same device. If you use the memory card on another device, you are asked for the password. Not all memory cards support password protection.

To remove the memory card password, select Options > Remove password. When you remove the password, the data on the memory card is not protected against unauthorized use.

To open a locked memory card, select Options > Unlock memory card. Enter the password.

If you cannot recall the password to unlock a locked memory card, you may reformat the card, in which case the card is unlocked and password removed. Formatting a memory card destroys all data stored on the card.

Encryption

Select Menu > Tools > Encryption.

Encrypt your device or memory card to prevent outsiders from accessing your important information.
Encrypt device memory or memory card

To encrypt the device memory, select **Phone memory**.

To encrypt the memory card, select **Memory card** and from the following:

- **Encrypt without saving key** — Encrypt the memory card without saving the encryption key. If you select this option, you cannot use the memory card in other devices, and if you restore factory settings, you cannot decrypt the memory card.

- **Encrypt and save key** — Encrypt the memory card and save the key manually in the default folder. For security, store the key to a safe place outside the device. For example, you can send the key to your computer. Enter a pass phrase for the key and a name for the key file. The pass phrase should be long and complex.

- **Encrypt with restored key** — Encrypt the memory card with a key you have received. Select the key file and enter the pass phrase.

Decrypt device memory or memory card

Always remember to decrypt the device memory and/or the memory card before updating the device software.

To decrypt the device memory, select **Phone memory**.

To decrypt the memory card without destroying the encryption key, select **Memory card > Decrypt**.

To decrypt the memory card and destroy the encryption key, select **Memory card > Decrypt and turn off encryption**.

Fixed dialing

Select **Menu > Communic. > Contacts > Options > SIM contacts > Fixed dial contacts**.

With the fixed dialing service, you can restrict calls from your device to certain phone numbers. Not all SIM cards support the fixed dialing service. Contact your service provider for more information.

1. To restrict calls from your device, select **Options > New SIM contact** and enter the contact name and phone number to the list of numbers to which calls are allowed, or select **Add from Contacts** to copy the contact from Contacts. To restrict calls by a country prefix, enter the country prefix in the list of numbers. All phone numbers to which calls are allowed must start with this country prefix.

2. Select **Options > Activate fixed dialing**. You need your PIN2 code to activate and deactivate fixed dialing or edit your fixed dialing contacts. Contact your service provider if you do not have the code. To cancel the service, select **Options > Deactivate fixed dialing**.

**Tip:** To send text messages to the SIM contacts while the fixed dialing service is active, you need to add the text message center number to the fixed dialing list.
Certificate manager

Select **Menu > Tools > Settings > General > Security > Certificate management.**

Digital certificates are used to verify the origins of software but do not guarantee safety. There are four different types of certificates: authority certificates, personal certificates, trusted site certificates and device certificates. During a secure connection, a server may send a server certificate to your device. Upon receipt, it is checked through an authority certificate stored in your device. You receive notification if the identity of the server is not authentic or if you do not have the correct certificate in your device.

You can download a certificate from a web site, or receive a certificate as a message. Certificates should be used when you connect to an online bank or a remote server to transfer confidential information. They should also be used if you want to reduce the risk of viruses or other malicious software, and to check the authenticity of software when you download and install software to your device.

**Tip:** When you add a new certificate, check its authenticity.

View certificate details

You can only be sure of the correct identity of a server when the signature and the validity period of a server certificate have been checked.

To view certificate details, open a certificate folder, and select a certificate and **Options > Certificate details.**

One of the following notes may appear:

- **Certificate not trusted** — You have not set any application to use the certificate. You may want to change the trust settings.
- **Expired certificate** — The period of validity has ended for the selected certificate.
- **Certificate not valid yet** — The period of validity has not yet begun for the selected certificate.
- **Certificate corrupted** — The certificate cannot be used. Contact the certificate issuer.

Certificate trust settings

Trusting a certificate means that you authorize it to verify web pages, e-mail servers, software packages and other data. Only trusted certificates can be used to verify services and software.

**Important:** Even if the use of certificates makes the risks involved in remote connections and software installation considerably smaller, they must be used correctly in order to benefit from increased security. The existence of a certificate does not offer any protection by itself; the certificate manager must contain correct, authentic, or trusted certificates for increased security to be available. Certificates have a restricted lifetime. If "Expired certificate" or "Certificate not valid yet" is shown, even if the certificate should be valid, check that the current date and time in your device are correct.

© 2010 Nokia. All rights reserved.
Before changing any certificate settings, you must make sure that you really trust the owner of the certificate and that the certificate really belongs to the listed owner.

To change the trust settings, select a certificate and **Options > Trust settings**. Select an application field and press the scroll key to select **Yes** or **No**. You cannot change the trust settings of a personal certificate.

Depending on the certificate, a list of applications that can use the certificate is displayed:

- **Symbian installation** — New Symbian operating system application.
- **Internet** — E-mail and graphics.
- **App. installation** — New Java™ application.
- **Online certif. check** — Online certificate status protocol.

### Security modules

Select **Menu > Tools > Settings > General > Security > Security module**.

### View and edit security modules

To view or edit a security module, scroll to it and press the scroll key.

To view detailed information about a security module, select **Options > Security details**.

To edit the PIN codes for the security module, select **Module PIN** to edit the PIN code for the security module or **Signing PIN** to edit the PIN code for digital signatures. You may not be able to change these codes for all security modules.

The key store contains the contents of the security module. To delete the key store, select **Key store**, select the desired key store and **Options > Delete**. You may not be able to delete the key store of all security modules.

### Back up data

It is recommended to back up device memory regularly to the memory card or a compatible computer.

To back up information from the device memory to a memory card, select **Menu > Tools > Memory > Options > Back up phone memory**.

To restore information from the memory card to the device memory, select **Menu > Tools > Memory > Options > Restore from card**.

You can also connect your device to a compatible computer and use Nokia PC Suite to back up data.

### Application manager

Select **Menu > Installat. > App. mgr.**

You can install two types of applications and software on your device:

- Applications and software specifically intended for your device or compatible with the Symbian operating system.
These software installation files have the extension .sis or .sisx.

- Java ME™ applications compatible with the Symbian operating system. The Java application installation file extensions are .jad or .jar.

Installation files may be transferred to your device from a compatible computer, downloaded during browsing, or sent to you in a multimedia message, as an e-mail attachment, or with Bluetooth.

During the installation, the device checks the integrity of the package to be installed. The device shows information about the checks being carried out, and you are given options to continue or cancel the installation.

If you install applications that require a network connection, note that the power consumption of your device may increase when you use these applications.

**Tip:** When browsing web pages, you can download an installation file and install it immediately. Note, however, that the connection runs in the background during the installation.

### Install applications

**Important:** Only install and use applications and other software from trusted sources, such as applications that are Symbian Signed or have passed the Java Verified™ testing.

To download and install software from the web, select **Download apps**. Select the application and **Options > Install**.

To view the details of an installed software package, select the application and **Options > View details**.

To view the installation log, select **Options > View log**. A list shows what software has been installed and removed, and the date of the installation or removal. If you encounter problems with the device after installing a software package, use this list to find out which software package may be the cause of the problem. The information in this list may also help you pinpoint problems that are caused by software packages that are incompatible with each other.

To remove software, select **Options > Remove**. If you remove software, you can only reinstall it by using the original software package file, or by restoring a full backup that contains the removed software package. If you remove a software package, you may no longer be able to open files created with that software. If another software package depends on the software package that you removed, the other software package may stop working. Refer to the documentation of the installed software package for details.

### Installation settings

To modify the installation settings, select **Options > Settings** and from the following:

- **Software installation** — Select to install signed applications only or all applications.
- **Online certificate check** — To check the validity of certificates when an application is installed, select **On**. If validity cannot be verified, you are asked if you want to continue installation.
• **Default web address** — The validity of a certificate is checked from the default address if the certificate does not include its own web address. To change the default address, select **Default web address** and enter the new address.

Java security settings

To specify security settings for a Java application, select **Options > Settings**.

You can define which functions the Java application can access. The value that you can set for each functionality depends on the protection domain of the software package.

- **Access point** — Select an access point that the application may use when making network connections.
- **Network access** — Allow the application to create a data connection to the network.
- **Messaging** — Allow the application to send messages.
- **Application auto-start** — Allow the application to start automatically.
- **Connectivity** — Allow the application to activate a data connection, such as a Bluetooth connection.
- **Multimedia** — Allow the application to use the multimedia features of your device.
- **Read user data** — Allow the application to read your calendar entries, contacts or any other personal data.
- **Edit user data** — Allow the application to add personal data, such as entries to Contacts.
- **Positioning** — Allow the application to use the location data in your device.
- **Landmarks** — Allow the application to use the landmarks in your device.

You can define how you are prompted to confirm the Java application's access to the device functions. Select one of the following values:

- **Ask every time** — Require the Java application to ask for your confirmation each time it uses the functionality.
- **Ask first time** — Require the Java application to ask for initial confirmation to use the functionality.
- **Always allowed** — Allow the Java application to use the functionality without your confirmation. The security settings help protect your device against harmful Java applications that may use the functions of your device without your permission. Only select **Always allowed** if you know the supplier and trustworthiness of the application.
- **Not allowed** — Prevent the Java application from using the functionality.

Activation keys

Select **Menu > Tools > Actv. keys**.

Some media files, such as images, music or video clips, are protected by digital usage rights. The activation keys for such files may allow or restrict their usage. For example, with some activation keys you may listen to a music track only a limited number of times. During one playback session you may rewind, fast-forward or pause the track, but once you stop it, you have used one of the instances allowed.
Use activation keys

Digital rights management (DRM) protected content comes with an associated activation key that defines your rights to use the content.

If your device has OMA DRM-protected content, to back up both the activation keys and the content, use the backup feature of Nokia Ovi Suite.

If your device has WMDRM-protected content, both the activation keys and the content will be lost if the device memory is formatted. You may also lose the activation keys and the content if the files on your device get corrupted. Losing the activation keys or the content may limit your ability to use the same content on your device again. For more information, contact your service provider.

Some activation keys may be connected to a specific SIM card, and the protected content can be accessed only if the SIM card is inserted in the device.

To view your activation keys by type, select Valid keys, Invalid keys or Not in use.

To view the key details, select Options > Key details.

The following details are displayed for each media file:

- **Status** — The status is Activation key is valid, Activation key expired or Activation key not yet valid.
- **Content sending** — Allowed means that you can send the file to another device. Not allowed means that you cannot send the file to another device.

To activate a key, go to the Activation keys main view and select Invalid keys > Options > Get activation key. Establish a network connection at the prompt, and you are directed to a web site where you can purchase rights to the media.

To remove file rights, open the valid keys tab or the keys not in use tab, scroll to the desired file and select Options > Delete. If there are several rights related to the same media file, all the rights are deleted.

The group key view displays all of the files related to a group right. If you have downloaded multiple media files with the same rights, they are all displayed in this view. You can open the group view from either the valid keys or invalid keys tabs. To access these files, open the group rights folder.

Data synchronization

Select Menu > Tools > Sync.

With Sync, you can synchronize your contacts, calendar entries or notes with corresponding applications on a compatible computer or remote internet server. Your synchronization settings are saved in a synchronization profile. The Sync application uses SyncML technology for remote synchronization. For information on SyncML compatibility, contact the supplier of the applications with which you want to synchronize your device.
You may receive the synchronization settings as a message from your service provider. The available applications you can synchronize may vary. Contact your service provider for more information.

Create a synchronization profile

There is a Nokia PC Suite synchronization profile available in your device. You do not need to edit it if you synchronize your device with a computer using Nokia PC Suite.

To create a new profile, select Options > New sync profile and assign a name for the profile, select the applications to synchronize with the profile, and specify the needed connection settings. Contact your service provider for details.

Select applications to synchronize

1. To select the applications to synchronize with a synchronization profile, select Options > Edit sync profile > Applications.
2. Select the desired application and select Include in sync > Yes.
3. Specify the Remote database and Synchronization type settings.

Synchronization connection settings

To define the connection settings of a new profile, select Options > New sync profile > Connection settings and define the following settings:

- **Server version** — Select the SyncML version you can use with the remote server.
- **Server ID** — Enter the server ID of the remote server. This setting is only available if you select 1.2 as the SyncML version.
- **Data bearer** — Select the data bearer to connect to the remote server during synchronization.
- **Access point** — Select the access point to use for the synchronization connection, or create a new access point. You can also choose to be asked for the access point every time you start synchronizing.
- **Host address** — Enter the web address of the server that contains the database with which you want to synchronize your device.
- **Port** — Enter the port number of the remote database server.
- **User name** — Enter your user name to identify your device to the server.
- **Password** — Enter your password to identify your device to the server.
- **Allow sync requests** — To allow synchronization to start from the remote database server, select Yes.
- **Accept all sync requests** — To have your device ask for your confirmation before accepting synchronization from the server, select No.
• **Network authentication** — To authenticate your device to the network before synchronization, select Yes. Enter your network user name and network password.

### Mobile VPN

Select **Menu > Tools > Settings > Connection > VPN.**

The Nokia mobile virtual private network (VPN) client creates a secure connection to compatible corporate intranet and services, such as e-mail. Your device connects from a mobile network, through the internet, to a corporate VPN gateway that acts as a front door to the compatible corporate network. VPN client uses IP Security (IPSec) technology. IPSec is a framework of open standards for supporting secure exchange of data over IP networks.

VPN policies define the method used by the VPN client and a VPN gateway to authenticate each other, and the encryption algorithms that they use to help protect the confidentiality of data. Contact your company's IT department for a VPN policy.

To install and configure the VPN client, certificates, and policies, contact the IT administrator of your organization.

### Manage VPN

Select **VPN management**, and from the following:

- **VPN policies** — Install, view, and update VPN policies.
- **VPN policy servers** — Edit the connection settings of VPN policy servers from which you can install and update VPN policies. A policy server refers to a Nokia Security Service Manager (NSSM), which is not necessarily required.
- **VPN log** — View the log for your VPN policy installations, updates and synchronizations, and other VPN connections.

### Create VPN access points

An access point is where your phone connects to the network. To use e-mail and multimedia services or to browse web pages you must first define internet access points for these services. VPN access points pair VPN policies with regular internet access points to create secure connections.

Your service provider may preset some or all access points for your device, and you may not be able to create, edit, or remove them.

Contact your company's IT department for the correct settings.

Open a destination, select a VPN access point, select **Edit**, and define the following:

- **Connection name** — Enter a name for the VPN access point.
- **VPN policy** — Select the VPN policy to combine with the internet access point.
- **Internet access point** — Select the internet access point with which to combine the VPN policy to create secure connections for data transfer.
- **Proxy server address** — Enter the proxy server address of the private network.
- **Proxy port number** — Enter the proxy port number.
Use a VPN connection in an application

You may have to prove your identity when you log on to the enterprise network. Contact your company's IT department for the credentials.

To use a VPN connection in an application, the application must be associated with a VPN access point.

**Tip:** You can configure the application's connection setting to **Always ask**, in which case you select the VPN access point from a list of connections when a connection is established.

1. In the application in which you want to create a VPN connection, select a VPN access point as the access point.
2. If you are using legacy authentication, enter your VPN user name and passcode or password. If the SecurID token has become out of synchronization with the clock of the ACE/Server, enter the next passcode. If you are using certificate-based authentication, you may have to enter the key store password.
Settings

Select Menu > Tools > Settings.
You can define and modify various settings of your device. Modifying these settings affects the operation of your device across several applications.

Some settings may be preset for the device or sent to you in a special message by your service provider. You may not be able to change such settings.

Select the setting you want to edit to do the following:
• Switch between two values, such as on or off.
• Select a value from a list.
• Open a text editor to enter a value.
• Open a slider to decrease or increase the value by scrolling left or right.

General settings

Select Menu > Tools > Settings > General.
Select from the following:
• Personalization — Change the display settings and personalize the device.
• Date and time — Change the date and time.
• Enhancement — Define the settings for your enhancements.
• Security — Define the security settings.
• Factory settings — Restore the original settings of the device.
• Positioning — Define the positioning method and server for GPS-based applications.

Personalization settings

Select Menu > Tools > Settings > General > Personalization.

Display settings

To define the level of light that the device needs before switching on the backlight, select Display > Light sensor.
To change the text size, select Display > Font size.
To adjust the length of time the display can be left idle before the screen saver is activated, select Display > Power saver time-out.
To select a welcome note or logo for the display, select Display > Welcome note / logo. You can either choose the default welcome note, enter your own text, or select an image.
To set how quickly the display dims after the last keypress, select Display > Light time-out.
Standby mode settings
To select whether to use the home screen, select Home screen > Home screen.
To change the home screen mode settings, select Home screen > Mode settings.
To assign shortcuts for the device keys, select Home screen > Key shortcuts. These shortcuts are not available in the home screen.

Tone settings
To select a ringing tone for voice calls, select Tones > Ringing tone.
To select a ringing tone for video calls, select Tones > Video call tone.
To set the ringing type, select Tones > Ringing type. You can also set the device to sound a ringing tone that is a combination of the spoken name of the caller and the selected ringing tone, when someone from your contacts list calls you. Select Tones > Say caller's name.
To set the volume level of the ringing tone, select Tones > Ringing volume.
To set the various alert tones, select Tones > Message alert tone, E-mail alert tone, Calendar alarm tone, or Clock alarm tone.
To set the device to vibrate when you receive a call, select Tones > Vibrating alert.
To set the volume level of the device keypad tones, select Tones > Keypad tones.

To set the warning tones on or off, select Tones > Warning tones.

Language settings
To set the language used on the device display, select Language > Phone language.
To select the language in which you write notes and messages, select Language > Writing language.
To select whether to use the predictive text input, select Language > Predictive text.
To define the settings for the predictive text input, select Predictive text settings.

Notification light
When you receive a message or miss a call, the scroll key starts blinking to indicate the event.
To set the length of time you want the scroll key to blink, select Notification light > Blink light for.
To select of which events you want to be notified, select Notification light > Notified events.

Settings for One-touch keys
Select Menu > Tools > Settings > General > Personalization > One-touch keys.
To select which application and task is opened when you press a One-touch key, select the key and Options > Open.
To restore the preset applications and tasks, select Restore defaults.
Date and time settings
Select Menu > Tools > Settings > General > Date and time.
To set the current date and time, select Date and Time.
To define your time zone, select Time zone.
To update the time, date and time zone information automatically (network service), select Network operator time > Auto-update.
To select whether to use the 12-hour or 24-hour clock system and with which symbol to separate hours and minutes, select Time format and Time separator.
To determine the date format and separator, select Date format and Date separator.
To define the clock type, select Clock type > Analog or Digital.
To select the tone for the alarm clock, select Clock alarm tone.
To determine the week days that are work days for you, select Workdays.

Enhancement settings
Select Menu > Tools > Settings > General > Enhancement.

Common enhancement settings
With most enhancements, you can do the following:

E-mail key settings
To select which mailbox to open with the e-mail key, select E-mail key settings > E-mail key and press the scroll key.

Security settings
Select Menu > Tools > Settings > General > Security.
Define the following security settings:
• Phone and SIM card — Adjust the security settings for your device and SIM card.
• Certificate management — Manage your security certificates.
• Security module — Manage your security module.
Avoid using codes that are similar to emergency numbers to prevent accidental dialing of the emergency number. Codes are shown as asterisks. When you change a code, enter the current code, then the new code twice.
Device and SIM card security

To change the PIN code, select **Phone and SIM card > PIN code**. The new code must be 4 to 8 digits long. The PIN code protects your SIM card against unauthorized use and is provided with the SIM card. After three consecutive incorrect PIN code entries, the code is blocked and you need to use the PUK code to unblock it before you can use the SIM card again.

To set the keypad to lock automatically after a defined period, select **Phone and SIM card > Keypad autolock period**.

To set a time-out after which the device is automatically locked and can be used only if the correct lock code is entered, select **Phone and SIM card > Phone autolock period**. Enter a number for the time-out in minutes or select **None** to set off the autolock period. When the device is locked, you can still answer incoming calls, and calls may still be possible to the official emergency number programed into your device.

To set a new lock code, select **Phone and SIM card > Lock code**. The preset lock code is 12345. Enter the current code and then the new code twice. The new code can be 4-255 characters long. Both alphabets and digits can be used, and both uppercase and lowercase alphabets are possible. The device notifies you if the lock code is not properly formatted.

Telephone settings

Select **Menu > Tools > Settings > Phone**. Select from the following:

- **Call** — Define general call settings.
- **Call forwarding** — Define your call forwarding settings. See "Call forward," p. 36.
- **Call restriction** — Define your call restricting settings. See "Call restrictions," p. 37.
- **Network** — Adjust the network settings.

Call settings

To display your phone number to the person you are calling select **Call > Send my caller ID > Yes**. To let the network determine whether your caller ID is sent, select **Set by network**.

To display your net call address to the person you are calling using a net call, select **Call > Send my internet call ID > Yes**.

To be notified of a new incoming call while you have a call in progress, select **Call > Call waiting > Options > Activate**. To check if the function is active on the network, select **Options > Check status**.

Restore original settings

To restore the original device settings, select **Factory settings**. To do this, you need your device lock code. After resetting, the device may take a longer time to power on. Documents, contact information, calendar entries, and files are unaffected.
To select whether net calls alert or not, select **Call > Internet call alert**. You are notified of missed net calls with a notification.

To set the default call type, select **Call > Default call type** and select **Voice call** if you make a GSM calls, or **Internet call** if you make net calls.

To send a text message automatically to the person who is calling you informing why you cannot answer the incoming call, select **Call > Reject call with SMS > Yes**. To set the text for the message, select **Call > Message text**.

To set off the contact search on the home screen, select **Call > Contact search > Off**.

### Network settings

Select **Menu > Tools > Settings > Phone > Network**.

To select the network mode, select **Network mode** and **Dual mode, UMTS**, or **GSM**. In the dual mode, the device switches automatically between networks.

**Tip**: UMTS enables faster data transfer, but may increase the demand on battery power and reduce the battery life. In regions close to both GSM and UMTS networks, selecting **Dual mode** may cause constant jumping between the two networks, which also increases the demand on battery power.

To select the operator, select **Operator selection** and **Manual** to choose from available networks, or **Automatic** to have the device select the network automatically.

To set the device to indicate when it is used in Micro Cellular Network (MCN), select **Cell info display > On**.

### Connection settings

Select **Menu > Tools > Settings > Connection**.

Select from the following:

- **Bluetooth** — Edit the Bluetooth settings. See "Send and receive data with Bluetooth," p. 96.
- **USB** — Edit the data cable settings. See "Data cable," p. 95.
- **Access points** — Set up new or edit existing access points. Some or all access points may be preset for your device by your service provider, and you may not be able to create, edit, or remove them.
- **Packet data** — Determine when packet data connections are used, and enter the access point if you use your device as a modem for a computer.
- **Wireless LAN** — Determine if the device displays an indicator when a WLAN is available, and how often the device searches for networks.
- **SIP settings** — View or create session initiation protocol (SIP) profiles.
- **Internet tel.** — Define settings for net calls.
- **Configurations** — View and delete trusted servers from which your device may receive configuration settings.
- **APN control** — Restrict packet data connections. See "Restrict packet data," p. 122. This option is only available when a USIM card that supports this feature is inserted.
Access points

Select Menu > Tools > Settings > Connection > Access points.

An internet access point is a collection of settings, which define how the device creates a data connection to the network. To use e-mail and multimedia services or to browse web pages, you must first define access points for these services.

Some or all access points may be preset for your device by your service provider, and you may not be able to create, edit, or remove them.

To create a new access point, select Options > New access point or select an existing access point from the list and then Options > Duplicate access point to use the access point as a basis for the new one.

Packet data (GPRS) settings

Select Menu > Tools > Settings > Connection > Packet data.

Your device supports packet data connections, such as GPRS in the GSM network. When you are using your device in GSM and UMTS networks, it is possible to have multiple data connections active at the same time; access points can share a data connection, and data connections remain active, for example, during voice calls. See "Connection manager," p. 101.

To define the packet data settings, select Packet data connection and select When available to register the device to the packet data network when you switch the device on in a supported network, or When needed to establish a packet data connection only when an application or action requires it. Select Access point and enter the access point name provided by your service provider to use the device as a packet data modem to your computer.

These settings affect all access points for packet data connections.

WLAN settings

Select Menu > Tools > Settings > Connection > Wireless LAN.

To have an indicator displayed when there is a WLAN available in your current location, select Show WLAN availability > Yes.

To select the interval for your device to scan for available WLANs and update the indicator, select Scan for networks. This setting is not available unless you select Show WLAN availability > Yes.

Advanced WLAN settings

Select Options > Advanced settings. The advanced WLAN settings are normally defined automatically, and changing them is not recommended.

To edit the settings manually, select Automatic configuration > Disabled and define the following:

- Long retry limit — Enter the maximum number of transmission attempts if the device does not receive a receiving acknowledgement signal from the network.
• **Short retry limit** — Enter the maximum number of transmission attempts if the device does not receive a clear-to-send signal from the network.

• **RTS threshold** — Select the data packet size at which the WLAN access point device issues a request to send before sending the packet.

• **TX power level** — Select the power level of your device when sending data.

• **Radio measurements** — Enable or disable the radio measurements.

• **Power saving** — Select whether to use the WLAN power saving mechanism to save the power in the device battery. Using the power saving mechanism enhances the battery performance but may weaken WLAN interoperability.

To restore all settings to their original values, select **Options** > **Restore defaults**.

### WLAN security settings

Select **Menu** > **Tools** > **Settings** > **Connection** > **Access points** > **Options** > **New access point**, or select an access point and **Options** > **Edit**.

In the access point settings, select **WLAN security mode** and the desired mode.

### WEP security settings

Select **WEP** as the WLAN security mode.

The wired equivalent privacy (WEP) encryption method encrypts data before it is transmitted. Access to the network is denied to users who do not have the required WEP keys. When the WEP security mode is in use, and your device receives a data packet not encrypted with the WEP keys, the data is discarded.

In an ad-hoc network, all devices must use the same WEP key. Select **WLAN security settings** and from the following:

- **WEP key in use** — Select the desired WEP key.
- **Authentication type** — Select Open or Shared.
- **WEP key settings** — Edit the settings for the WEP key.

### WEP key settings

In an ad-hoc network, all devices must use the same WEP key. Select **WLAN security settings** > **WEP key settings** and from the following:

- **WEP encryption** — Select the desired WEP encryption key length.
- **WEP key format** — Select whether you want to enter the WEP key data in **ASCII** or **Hexadecimal** format.
- **WEP key** — Enter the WEP key data.

### 802.1x security settings

Select **802.1x** as the WLAN security mode. **802.1x** authenticates and authorizes devices to access a wireless network, and prevents access if the authorization process fails.

Select **WLAN security settings** and from the following:
The EAP (extensible authentication protocol) plug-ins are used in wireless networks to authenticate wireless devices and authentication servers, and the different EAP plug-ins make possible the use of various EAP methods (network service).

You can view the EAP plug-ins currently installed in your device (network service).

**EAP plug-ins**

1. To define the EAP plug-in settings, select **Options > New access point** and define an access point that uses WLAN as a data bearer.
2. Select **802.1x** or **WPA/WPA2** as the security mode.
3. Select **WLAN security settings > WPA/WPA2 > EAP > EAP plug-in settings**.

**Use EAP plug-ins**

To use an EAP plug-in when you connect to a WLAN using the access point, select the desired plug-in and **Options > Enable**. The EAP plug-ins enabled for use with this access point have a check mark next to them. To not use a plug-in, select **Options > Disable**.

To edit the EAP plug-in settings, select **Options > Edit**.

To change the priority of the EAP plug-in settings, select **Options > Raise priority** to attempt to use the plug-in before other plug-ins when connecting to the network with the access point, or **Options > Lower priority** to use this plug-in for network authentication after attempting to use other plug-ins.

See the device help for more information on EAP plugins.
Session initiation protocol (SIP) settings

Select Menu > Tools > Settings > Connection > SIP settings.

Session initiation protocols (SIP) are used for creating, modifying and terminating certain types of communication sessions with one or more participants (network service). Typical communication sessions are video sharing and net calls. SIP profiles include settings for these sessions. The SIP profile used by default for a communication session is underlined.

To create a SIP profile, select Options > New SIP profile > Use default profile or Use existing profile.

To select the SIP profile you want to use by default for communication sessions, select Options > Default profile.

Edit SIP profiles

Select Options > Edit and select from the following:

- Profile name — Enter a name for the SIP profile.
- Service profile — Select IETF or Nokia 3GPP.
- Default access point — Select the access point to use for the internet connection.
- Public user name — Enter your user name received from your service provider.
- Use compression — Select if compression is used.
- Registration — Select the registration mode.
- Use security — Select if security negotiation is used.
- Proxy server — Enter the proxy server settings for this SIP profile.
- Registrar server — Enter the registration server settings for this SIP profile.

Edit SIP proxy servers

Select Options > New SIP profile or Edit > Proxy server.

Proxy servers are intermediate servers between a browsing service and its users used by some service providers. These servers may provide additional security and speed up access to the service.

Select from the following:

- Proxy server address — Enter the host name or IP address of the proxy server in use.
- Realm — Enter the proxy server realm.
- User name and Password — Enter your user name and password for the proxy server.
- Allow loose routing — Select if loose routing is allowed.
- Transport type — Select UDP, Auto or TCP.
- Port — Enter the port number of the proxy server.

Edit registration servers

Select Options > New SIP profile or Edit > Registrar server.

Select from the following:

- Registrar server address — Enter the host name or IP address of the registrar server in use.
- Realm — Enter the registrar server realm.
• **User name** and **Password** — Enter your user name and password for the registrar server.
• **Transport type** — Select **UDP, Auto or TCP**.
• **Port** — Enter the port number of the registrar server.

### Net call settings
Select **Menu > Tools > Settings > Connection > Internet tel.**

To create a new net call profile, select **Options > New profile**.

To edit an existing profile, select **Options > Edit**.

### Configuration settings
Select **Menu > Tools > Settings > Connection > Configurations**.

You can receive messages from your service provider or company information management containing configuration settings for trusted servers. These settings are automatically saved in the Configurations folder. You may receive configuration settings for access points, multimedia, or e-mail services, and synchronization settings from trusted servers.

To delete configurations for a trusted server, select **Options > Delete**. The configuration settings for other applications provided by this server are also deleted.

### Application settings
Select **Menu > Tools > Settings > Applications**.

Select an application from the list to adjust its settings.

### Restrict packet data
Select **Menu > Tools > Settings > Connection > APN control**.

With the access point control service, you can restrict packet data connections from your device to certain access points only. Your SIM card may not support the access point control service. Contact your service provider for more information.

To restrict the packet data connections from your device, select **Options > Activate restrictions**. You need your PIN2 code to activate and deactivate access point control or to edit the packet data access points on the control list.

To add access points that can be used for packet data connections to the control list, select **Options > Add name manually**. To enable connections to an operator-provided access point, create an empty access point.

To remove access points from the list, select **Options > Remove**.
Shortcuts

Here are some of the available keyboard shortcuts in your device. Shortcuts can make the use of the applications more efficient.

General shortcuts

<table>
<thead>
<tr>
<th>General shortcuts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power key</td>
</tr>
<tr>
<td>Press and hold to switch your device on and off.</td>
</tr>
<tr>
<td>Press once to switch between profiles.</td>
</tr>
<tr>
<td>Home screen</td>
</tr>
<tr>
<td>Left selection key + function key</td>
</tr>
<tr>
<td>Lock and unlock the keypad.</td>
</tr>
<tr>
<td>Call key</td>
</tr>
<tr>
<td>Open the call log.</td>
</tr>
<tr>
<td>0</td>
</tr>
<tr>
<td>Press and hold to open your home page in the Web browser.</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>Press and hold to call your voice mailbox.</td>
</tr>
<tr>
<td>Number key (2–9)</td>
</tr>
<tr>
<td>Call a phone number using 1-touch dialing. You must first activate 1-touch dialing at Menu &gt; Tools &gt; Settings &gt; Phone &gt; Call &gt; 1-touch dialing &gt; On.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Web</th>
</tr>
</thead>
<tbody>
<tr>
<td>*</td>
</tr>
<tr>
<td>Zoom in the page.</td>
</tr>
<tr>
<td>#</td>
</tr>
<tr>
<td>Zoom out the page.</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>Open the search dialog.</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>View the active pages.</td>
</tr>
<tr>
<td>8</td>
</tr>
<tr>
<td>View the page overview.</td>
</tr>
<tr>
<td>9</td>
</tr>
<tr>
<td>Open the dialog for entering a new web address.</td>
</tr>
<tr>
<td>0</td>
</tr>
<tr>
<td>Open the bookmarks folder.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Image viewer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Call key</td>
</tr>
<tr>
<td>Send the image.</td>
</tr>
<tr>
<td>0</td>
</tr>
<tr>
<td>Zoom out.</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>Zoom in.</td>
</tr>
<tr>
<td>7</td>
</tr>
<tr>
<td>Zoom in. Press twice for the full screen size.</td>
</tr>
<tr>
<td>Key</td>
</tr>
<tr>
<td>-----</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>8</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>1</td>
</tr>
<tr>
<td>*</td>
</tr>
</tbody>
</table>
## Glossary

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>3G</td>
<td>3rd generation mobile communications. A digital system for mobile communications which aims at global use and provides increased bandwidth. 3G lets a mobile device user access a wide variety of services, such as multimedia.</td>
</tr>
<tr>
<td>Ad-hoc operating mode</td>
<td>A WLAN network mode where two or more devices connect to each other using WLAN directly without a WLAN access point.</td>
</tr>
<tr>
<td>Cookies</td>
<td>Cookies are little pieces of information, given by the server to you, to store information about your visits to a web site. When you accept cookies, the server is able to evaluate your use of the web site, what you are interested in, what you want to read and so on.</td>
</tr>
<tr>
<td>DNS</td>
<td>Domain name service. An internet service that translates domain names such as <a href="http://www.nokia.com">www.nokia.com</a> into IP addresses such as 192.100.124.195. Domain names are easier to remember but this translation is needed because the internet is based on IP addresses.</td>
</tr>
<tr>
<td>Touch tones</td>
<td>Dual-tone multifrequency tones. Touch tones assign a specific frequency, or tone, to each key so that it can easily be identified by a microprocessor. Touch tones allow you to communicate with voice mailboxes, computerized telephony systems, and so on.</td>
</tr>
<tr>
<td>EAP</td>
<td>Extensible authentication protocol. EAP plug-ins are used in wireless networks to authenticate wireless devices and authentication servers.</td>
</tr>
<tr>
<td>EGPRS</td>
<td>Enhanced GPRS. EGPRS is similar to GPRS, but it enables faster connection. For availability and data transfer speed, contact your service provider.</td>
</tr>
</tbody>
</table>

© 2010 Nokia. All rights reserved.
<p>| <strong>GPRS</strong> | General packet radio service. GPRS enables wireless access for mobile phones to data networks (network service). GPRS uses packet data technology where information is sent in short bursts of data over the mobile network. The benefit of sending data in packets is that the network is occupied only when sending or receiving data. As GPRS uses the network efficiently, it allows for quick data connection setup and fast data transmission speeds. You must subscribe to the GPRS service. For availability and subscription to GPRS, contact your service provider. During a voice call, you cannot establish a GPRS connection, and any existing GPRS connection is put on hold unless the network supports dual transfer mode. |
| <strong>GPS</strong> | Global positioning system. GPS is a worldwide radio navigation system. |
| <strong>HTTP</strong> | Hypertext transfer protocol. A document transfer protocol used in the web. |
| <strong>HTTPS</strong> | HTTP over a secure connection. |
| <strong>IMAP4</strong> | Internet mail access protocol, version 4. A protocol used for accessing your remote mailbox. |
| <strong>Internet access point</strong> | An access point is where your device connects to a network. To use e-mail and multimedia services or to connect to the internet and browse web pages, you must first define internet access points for these services. |
| <strong>Infrastructure operating mode</strong> | A WLAN network mode where devices are connected to WLAN using a WLAN access point. |
| <strong>PIN</strong> | Personal identity number. The PIN code protects your device from unauthorized use. The PIN code is supplied with the SIM card. If the PIN code request is selected, the code is required each time the device is switched on. The PIN code must be 4 to 8 digits long. |
| <strong>PIN2</strong> | The PIN2 code is supplied with some SIM cards. The PIN2 code is required to access certain functions supported by the SIM card. The length of the PIN2 code is 4 to 8 digits. |
| <strong>POP3</strong> | Post office protocol, version 3. A common mail protocol that can be used for accessing your remote mailbox. |
| <strong>PUK and PUK2</strong> | Personal Unblocking Key. PUK and PUK2 codes are required to change a blocked PIN code or PIN2 code, respectively. The length of the code is 8 digits. |
| <strong>SIP</strong> | Session Initiation Protocol. SIP is used for creating, modifying and terminating certain types of communication sessions with one or more participants. |</p>
<table>
<thead>
<tr>
<th>SSID</th>
<th>Service set identifier. SSID is the name that identifies the specific WLAN.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Streaming</td>
<td>Streaming audio and video files means playing them directly from the web without downloading them first to your device.</td>
</tr>
<tr>
<td>UMTS</td>
<td>Universal Mobile Telecommunications System. UMTS is a 3G mobile communication system. Besides voice and data, UMTS enables audio and video delivery to wireless devices. When you use your device in GSM and UMTS networks, multiple data connections can be active at the same time, and access points can share a data connection. In the UMTS network, data connections remain active during voice calls. You can, for example, browse the web faster than previously possible while simultaneously speaking on the phone.</td>
</tr>
<tr>
<td>UPIN</td>
<td>PIN code used in UMTS network.</td>
</tr>
<tr>
<td>UPUK</td>
<td>UPIN Unblocking Key. UPUK code is required to change a blocked UPIN code or PIN2 code. The length of the code is 8 digits.</td>
</tr>
<tr>
<td>USIM</td>
<td>SIM card used in UMTS network.</td>
</tr>
<tr>
<td>USSD command</td>
<td>A service request, such as request to activate an application or configure various settings remotely, that you can send to your operator or service provider with your device.</td>
</tr>
<tr>
<td>VoIP</td>
<td>Voice over IP technology. VoIP is a set of protocols that facilitate phone calls over an IP network, such as the internet.</td>
</tr>
<tr>
<td>VPN</td>
<td>Virtual private network. VPN creates a secure connection to compatible corporate intranet and services, such as e-mail.</td>
</tr>
<tr>
<td>WAP</td>
<td>Wireless application protocol. WAP is an international standard for wireless communication.</td>
</tr>
<tr>
<td>WEP</td>
<td>Wired equivalent privacy. WEP is an encryption method that encrypts data before it is transmitted in WLAN.</td>
</tr>
<tr>
<td>WLAN</td>
<td>Wireless local area network.</td>
</tr>
<tr>
<td>WPA</td>
<td>Wi-Fi Protected Access. Security method for WLAN.</td>
</tr>
<tr>
<td>WPA2</td>
<td>Wi-Fi Protected Access 2. Security method for WLAN.</td>
</tr>
</tbody>
</table>
Troubleshooting

To see frequently asked questions about your device, visit the product support pages at the Nokia web site.

Q: What is my lock, PIN, or PUK code?
A: The default lock code is 12345. If you forget or lose the lock code, contact your device dealer. If you forget or lose a PIN or PUK code, or if you have not received such a code, contact your network service provider.

Q: How do I close an application that is not responding?
A: Press and hold the home key. Scroll to the application and press the backspace key to close the application.

Q: Why do images look smudgy?
A: Ensure that the camera lens protection windows are clean.

Q: Why do missing, discolored, or bright dots appear on the screen every time I switch on my device?
A: This is a characteristic of this type of display. Some displays may contain pixels or dots that remain on or off. This is normal, not a fault.

Q: Why can’t I find my friend’s device while using Bluetooth connectivity?
A: Check that both devices are compatible, have activated Bluetooth connectivity, and are not in the hidden mode. Check also that the distance between the two devices is not over 10 meters (33 feet) and that there are no walls or other obstructions between the devices.

Q: Why can’t I end a Bluetooth connection?
A: If another device is connected to your device, you can end the connection using the other device or by deactivating Bluetooth connectivity. Select Menu > Connectivity > Bluetooth > Bluetooth > Off.

Q: Why can't I see a WLAN access point even though I know I'm within its range?
A: Check that the Offline profile is not in use in your device. The WLAN access point may use a hidden service set identifier (SSID). You can only access networks that use a hidden SSID if you know the correct SSID and have created a WLAN access point for the network on your Nokia device. Check that the WLAN access point is not on channels 12-13, as they cannot be associated with.

Q: How do I switch WLAN off on my Nokia device?
A: The WLAN on your Nokia device switches off when you are not trying to connect, not connected to another access point, or not scanning for available networks. To further reduce battery consumption, you can specify that your Nokia device does not scan, or scans less often, for available networks in the background. WLAN switches off in between background scans.
To stop the background scans, select Menu > Tools > Settings > Connection > Wireless LAN > Show WLAN availability > Never. You can still manually scan for available WLAN networks and connect to WLAN networks as usual.

To increase the background scan interval, select Show WLAN availability > Yes, and define the interval in Scan for networks.

Q: Why can't I browse the web even though the WLAN connection is working and the IP settings are correct?

A: Check that you have defined the HTTP/HTTPS proxy settings correctly in the advanced settings of your WLAN access point.

Q: How do I check the signal quality of my WLAN connection?

Select Menu > Connectivity > Conn. mgr. > Active data connections > Options > Details. If the signal quality is weak or moderate, you may encounter connection problems. Try again closer to the access point.

Q: Why do I have problems with the security mode?

A: Check that you have configured the security mode correctly, and that it is the same that the network uses. To check the security mode the network uses, select Menu > Connectivity > Conn. mgr. > Active data connections > Options > Details.

Check also the following: you have the correct WPA mode (preshared key or EAP), you have disabled all EAP types that are not needed, and all the EAP type settings are correct (passwords, user names, certificates).

Q: Why can't I select a contact for my message?

A: The contact card does not have a phone number, an address, or an e-mail address. Select Menu > Communic. > Contacts, and edit the contact card.

Q: The note Retrieving message is shown briefly. What is happening?

A: The device is trying to retrieve a multimedia message from the multimedia messaging center. This note is shown if you have selected Menu > Communic. > Messaging > Options > Settings > Multimedia message > Multimedia retrieval > Always automatic. Check that the settings for multimedia messaging are defined correctly and that there are no mistakes in phone numbers or addresses. See "Multimedia message settings," p. 59.

Q: How can I end the data connection when the device starts a data connection again and again?

A: The device may be trying to retrieve a multimedia message from the multimedia message center. To stop the device from making a data connection, select Menu > Communic. > Messaging > Options > Settings > Multimedia message > Multimedia retrieval > Manual to have the multimedia messaging center save messages to be retrieved later, or Off to ignore all incoming multimedia messages. If you select Manual, you receive a notification when there is a new multimedia message that you can retrieve in the multimedia message center. If you select Off, the device does not make any network connections related to multimedia messaging.
To set the device to use a GPRS connection only if you start an application or action that needs it, select Menu > Tools > Settings > Connection > Packet data > Packet data connection > When needed.

If this does not help, switch the device off and switch it on again.

Q: How do I save battery power?

A: Many features in your device increase the demand on battery power and reduce the battery life time. To save battery power, do the following:

• Switch off Bluetooth when you do not need it.
• Stop the background scans for WLAN. Select Menu > Tools > Settings > Connection > Wireless LAN > Show WLAN availability > Never. You can still manually scan for available WLAN networks and connect to WLAN networks as usual.

• Set the device to use a packet data connection only if you start an application or action that needs it. Select Menu > Tools > Settings > Connection > Packet data > Packet data connection > When needed.
• Prevent the device from automatically downloading new maps in the Maps application. Select Menu > GPS > Maps > Options > Tools > Settings > Internet > Go online at start-up > No.
• Change the time-out after which the backlight is switched off. Select Menu > Tools > Settings > General > Personalization > Display > Light time-out.
• Close the applications you do not use. Press and hold the home key. Scroll to the application and press the backspace key to close the application.

Product and safety information

Enhancements

⚠️ Warning: Use only batteries, chargers, and accessories approved by Nokia for use with this particular model. The use of any other types may invalidate any approval or guarantee, and may be dangerous. In particular, use of unapproved chargers or batteries may present a risk of fire, explosion, leakage, or other hazard.

For availability of approved accessories, please check with your dealer. When you disconnect the power cord of any accessory, grasp and pull the plug, not the cord.
Battery

Battery and charger information

Your device is powered by a rechargeable battery. The battery intended for use with this device is BP-4L. Nokia may make additional battery models available for this device. This device is intended for use when supplied with power from the following chargers: AC-8. The exact charger model number may vary depending on the type of plug. The plug variant is identified by one of the following: E, EB, X, AR, U, A, C, K, or UB.

The battery can be charged and discharged hundreds of times, but it will eventually wear out. When the talk and standby times are noticeably shorter than normal, replace the battery. Use only Nokia approved batteries, and recharge your battery only with Nokia approved chargers designated for this device.

If a battery is being used for the first time or if the battery has not been used for a prolonged period, it may be necessary to connect the charger, then disconnect and reconnect it to begin charging the battery. If the battery is completely discharged, it may take several minutes before the charging indicator appears on the display or before any calls can be made.

Safe removal. Always switch the device off and disconnect the charger before removing the battery.

Proper charging. Unplug the charger from the electrical plug and the device when not in use. Do not leave a fully charged battery connected to a charger, since overcharging may shorten its lifetime. If left unused, a fully charged battery will lose its charge over time.

Avoid extreme temperatures. Always try to keep the battery between 59°F and 77°F (15°C and 25°C). Extreme temperatures reduce the capacity and lifetime of the battery. A device with a hot or cold battery may not work temporarily. Battery performance is particularly limited in temperatures well below freezing.

Do not short-circuit. Accidental short-circuiting can occur when a metallic object such as a coin, clip, or pen causes direct connection of the positive (+) and negative (-) terminals of the battery. (These look like metal strips on the battery.) This might happen, for example, when you carry a spare battery in your pocket or purse. Short-circuiting the terminals may damage the battery or the connecting object.

Disposal. Do not dispose of batteries in a fire as they may explode. Dispose of batteries according to local regulations. Please recycle when possible. Do not dispose as household waste.

Leak. Do not dismantle, cut, open, crush, bend, puncture, or shred cells or batteries. In the event of a battery leak, prevent battery liquid contact with skin or eyes. If this happens, flush the affected areas immediately with water, or seek medical help.

Damage. Do not modify, remanufacture, attempt to insert foreign objects into the battery or immerse or expose it to water or other liquids. Batteries may explode if damaged.

Correct use. Use the battery only for its intended purpose. Improper battery use may result in a fire, explosion, or other hazard. If the device or battery is dropped, especially on a
hard surface, and you believe the battery has been damaged, take it to a service center for inspection before continuing to use it. Never use any charger or battery that is damaged. Keep your battery out of the reach of small children.

using it, and take it to the nearest Nokia authorized service center or dealer for assistance.

For additional information, refer to the warranty and reference leaflet included with your Nokia device.

Taking care of your device

Your device is a product of superior design and craftsmanship and should be treated with care. The following suggestions will help you protect your warranty coverage.

• Keep the device dry. Precipitation, humidity, and all types of liquids or moisture can contain minerals that will corrode electronic circuits. If your device does get wet, remove the battery, and allow the device to dry completely before replacing it.

• Do not use or store the device in dusty, dirty areas. Its moving parts and electronic components can be damaged.

• Do not store the device in high or cold temperatyre. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics. When the device warms to its normal temperature from a cold temperature, moisture can form inside the device and damage electronic circuit boards.

• Do not attempt to open the device other than as instructed in this guide.

• Do not drop, knock, or shake the device. Rough handling can break internal circuit boards and fine mechanics.
• Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the device. Only use a soft, clean, dry cloth to clean the surface of the device.

• Do not paint the device. Paint can clog the moving parts and prevent proper operation.

• Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the device and may violate regulations governing radio devices.

• Use chargers indoors.

• Backup all data you want to keep, such as contacts and calendar notes.

• To reset the device from time to time for optimum performance, power off the device and remove the battery.

These suggestions apply equally to your device, battery, charger, or any accessory.

Recycle
Always return your used electronic products, batteries, and packaging materials to dedicated collection points. This way you help prevent uncontrolled waste disposal and promote the recycling of materials. Check product environmental information and how to recycle your Nokia products at www.nokia.com/werecycle or http://nokia.mobi/werecycle.

Additional safety information
Small children
Your device and its accessories are not toys. They may contain small parts. Keep them out of the reach of small children.

Operating environment
This device meets RF exposure guidelines in the normal use position at the ear or at least 2.2 centimeters (7/8 inch) away from the body. Any carry case, belt clip, or holder for body-worn operation should not contain metal and should position the device the above-stated distance from your body.

To send data files or messages requires a quality connection to the network. Data files or messages may be delayed until such a connection is available. Follow the separation distance instructions until the transmission is completed.

Parts of the device are magnetic. Metallic materials may be attracted to the device. Do not place credit cards or other magnetic storage media near the device, because information stored on them may be erased.

Medical devices
Operation of radio transmitting equipment, including wireless phones, may interfere with the function of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine
whether they are adequately shielded from external RF energy. Switch off your device when regulations posted instruct you to do so. Hospitals or health care facilities may use equipment sensitive to external RF energy.

Implanted medical devices
Manufacturers of medical devices recommend a minimum separation of 15.3 centimeters (6 inches) between a wireless device and an implanted medical device, such as a pacemaker or implanted cardioverter defibrillator, to avoid potential interference with the medical device. Persons who have such devices should:

- Always keep the wireless device more than 15.3 centimeters (6 inches) from the medical device.
- Not carry the wireless device in a breast pocket.
- Hold the wireless device to the ear opposite the medical device.
- Turn the wireless device off if there is any reason to suspect that interference is taking place.
- Follow the manufacturer directions for the implanted medical device.

If you have any questions about using your wireless device with an implanted medical device, consult your health care provider.

Hearing aids
Some digital wireless devices may interfere with some hearing aids.

Vehicles
RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles such as electronic fuel injection, electronic antilock braking, electronic speed control, and air bag systems. For more information, check with the manufacturer of your vehicle or its equipment.

Only qualified personnel should service the device or install the device in a vehicle. Faulty installation or service may be dangerous and may invalidate your warranty. Check regularly that all wireless device equipment in your vehicle is mounted and operating properly. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the device, its parts, or accessories. Remember that air bags inflate with great force. Do not place your device or accessories in the air bag deployment area.

Switch off your device before boarding an aircraft. The use of wireless teledevices in an aircraft may be dangerous to the operation of the aircraft and may be illegal.

Potentially explosive environments
Switch off your device in any area with a potentially explosive atmosphere. Obey all posted instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or death. Switch off the device at refueling points such as near gas pumps at service stations. Observe restrictions in fuel depots, storage, and distribution areas; chemical plants; or where blasting operations are in progress. Areas with a
potentially explosive atmosphere are often, but not always, clearly marked. They include areas where you would be advised to turn off your vehicle engine, below deck on boats, chemical transfer or storage facilities and where the air contains chemicals or particles such as grain, dust, or metal powders. You should check with the manufacturers of vehicles using liquefied petroleum gas (such as propane or butane) to determine if this device can be safely used in their vicinity.

Emergency calls

Important: This device operates using radio signals, wireless networks, landline networks and user-programmed functions. If your device supports voice calls over the internet (internet calls), activate both the internet calls and the cellular phone. The device may attempt to make emergency calls over both the cellular networks and through your internet call provider if both are activated. Connections in all conditions cannot be guaranteed. You should never rely solely on any wireless device for essential communications like medical emergencies.

To make an emergency call:

1. If the device is not on, switch it on. Check for adequate signal strength. Depending on your device, you may also need to complete the following:
   • Insert a SIM card if your device uses one.
   • Remove certain call restrictions you have activated in your device.
   • Change your profile from Offline or Flight profile to an active profile.
2. Press the end key as many times as needed to clear the display and ready the device for calls.
3. Enter the official emergency number for your present location. Emergency numbers vary by location.
4. Press the call key.

When making an emergency call, give all the necessary information as accurately as possible. Your wireless device may be the only means of communication at the scene of an accident. Do not end the call until given permission to do so.

Certification information (SAR)

This cellular device meets guidelines for exposure to radio waves.

Your cellular device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves recommended by international guidelines. These guidelines were developed by the independent scientific organization ICNIRP and include safety margins designed to assure the protection of all persons, regardless of age and health.

The exposure guidelines for cellular devices employ a unit of measurement known as the Specific Absorption Rate or SAR. The SAR limit stated in the ICNIRP guidelines is 2.0 watts/kilogram (W/kg) averaged over 10 grams of tissue. Tests for SAR are conducted using standard operating positions with the device transmitting at its highest certified power level in all tested frequency bands. The actual SAR level of an operating device can be below the maximum value because the device is designed to use only the power required to reach
the network. That amount changes depending on a number of factors such as how close you are to a network base station. The highest SAR value under the ICNIRP guidelines for use of the device at the ear is 1.03 W/kg.

Use of device accessories may result in different SAR values. SAR values may vary depending on national reporting and testing requirements and the network band. Additional SAR information may be provided under product information at www.nokia.com.

Your cellular device is also designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA) and Industry Canada. These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use at the ear is 1.24 W/kg and when properly worn on the body is 0.62 W/kg.
# Index

## Symbols/Numbers

<table>
<thead>
<tr>
<th>Symbol/Number</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-touch dialing</td>
<td>36</td>
</tr>
<tr>
<td>3-D ringing tones</td>
<td>88</td>
</tr>
<tr>
<td>802.1x</td>
<td></td>
</tr>
<tr>
<td>security settings</td>
<td>119</td>
</tr>
</tbody>
</table>

## A

<table>
<thead>
<tr>
<th>Access</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>access points</td>
<td>118</td>
</tr>
<tr>
<td>VPN</td>
<td>111</td>
</tr>
<tr>
<td>activation keys</td>
<td>109</td>
</tr>
<tr>
<td>Active notes</td>
<td>89</td>
</tr>
<tr>
<td>settings</td>
<td>89</td>
</tr>
<tr>
<td>alarm clock</td>
<td>93</td>
</tr>
<tr>
<td>alert tones</td>
<td>114</td>
</tr>
<tr>
<td>altitude calibration</td>
<td>73</td>
</tr>
<tr>
<td>animated screen saver</td>
<td>87</td>
</tr>
<tr>
<td>antennas</td>
<td>16</td>
</tr>
<tr>
<td>application settings</td>
<td>122</td>
</tr>
<tr>
<td>applications</td>
<td></td>
</tr>
<tr>
<td>common actions</td>
<td>21</td>
</tr>
<tr>
<td>installing</td>
<td>107</td>
</tr>
<tr>
<td>modifying installations</td>
<td>107</td>
</tr>
<tr>
<td>attachments</td>
<td></td>
</tr>
<tr>
<td>e-mail</td>
<td>49</td>
</tr>
<tr>
<td>multimedia messages</td>
<td>54</td>
</tr>
<tr>
<td>sound clips</td>
<td>54</td>
</tr>
<tr>
<td>audio files</td>
<td></td>
</tr>
<tr>
<td>details</td>
<td>82</td>
</tr>
<tr>
<td>sending</td>
<td>82</td>
</tr>
<tr>
<td>autolock period</td>
<td>116</td>
</tr>
<tr>
<td>B</td>
<td></td>
</tr>
<tr>
<td>background image</td>
<td>87</td>
</tr>
<tr>
<td>backing up data</td>
<td>106</td>
</tr>
<tr>
<td>battery</td>
<td></td>
</tr>
<tr>
<td>charge level</td>
<td>20</td>
</tr>
<tr>
<td>charging</td>
<td>15</td>
</tr>
<tr>
<td>inserting</td>
<td>14</td>
</tr>
<tr>
<td>blogs</td>
<td>64</td>
</tr>
<tr>
<td>Bluetooth</td>
<td></td>
</tr>
<tr>
<td>authorizing devices</td>
<td>97</td>
</tr>
<tr>
<td>pairing</td>
<td>97</td>
</tr>
<tr>
<td>passcode</td>
<td>97</td>
</tr>
<tr>
<td>receiving data</td>
<td>96</td>
</tr>
<tr>
<td>security</td>
<td>98</td>
</tr>
<tr>
<td>sending data</td>
<td>96</td>
</tr>
<tr>
<td>bookmarks</td>
<td>64</td>
</tr>
<tr>
<td>browsing</td>
<td></td>
</tr>
<tr>
<td>intranet</td>
<td>65</td>
</tr>
<tr>
<td>offline</td>
<td>64</td>
</tr>
<tr>
<td>web</td>
<td>63</td>
</tr>
<tr>
<td>C</td>
<td></td>
</tr>
<tr>
<td>cable</td>
<td>95</td>
</tr>
<tr>
<td>cache</td>
<td></td>
</tr>
<tr>
<td>emptying</td>
<td>64</td>
</tr>
<tr>
<td>Calculator</td>
<td>89</td>
</tr>
<tr>
<td>Calendar</td>
<td></td>
</tr>
<tr>
<td>settings</td>
<td>27</td>
</tr>
<tr>
<td>calendar entries</td>
<td></td>
</tr>
<tr>
<td>creating</td>
<td>27</td>
</tr>
<tr>
<td>viewing</td>
<td>27</td>
</tr>
<tr>
<td>calendar key</td>
<td>26</td>
</tr>
<tr>
<td>calendar views</td>
<td></td>
</tr>
<tr>
<td>changing</td>
<td>26</td>
</tr>
<tr>
<td>call forward</td>
<td>36, 37</td>
</tr>
<tr>
<td>call restriction</td>
<td>37, 38</td>
</tr>
<tr>
<td>net calls</td>
<td>38, 39</td>
</tr>
<tr>
<td>caller ID</td>
<td>116</td>
</tr>
<tr>
<td>calls</td>
<td></td>
</tr>
<tr>
<td>1-touch dialing</td>
<td>36</td>
</tr>
<tr>
<td>answering</td>
<td>32</td>
</tr>
<tr>
<td>call waiting</td>
<td>116</td>
</tr>
<tr>
<td>caller ID</td>
<td>116</td>
</tr>
<tr>
<td>conference call</td>
<td>33</td>
</tr>
<tr>
<td>declining with text message</td>
<td>116</td>
</tr>
<tr>
<td>fixed dialing</td>
<td>104</td>
</tr>
<tr>
<td>making</td>
<td>32</td>
</tr>
<tr>
<td>making a call from Log</td>
<td>44</td>
</tr>
<tr>
<td>making a net call</td>
<td>35</td>
</tr>
<tr>
<td>muting the ringing tone</td>
<td>32</td>
</tr>
<tr>
<td>net call alert</td>
<td>116</td>
</tr>
<tr>
<td>PTT</td>
<td>42</td>
</tr>
</tbody>
</table>

© 2010 Nokia. All rights reserved.
rejecting 32
restricting net calls 38, 39
selecting type 116
settings 116
voice commands 40
voice dialing 40
voice mail 39
camera
capturing images 75
recording video clips 75
settings 76
car kit
tremote SIM access 98
cell broadcast 58
settings 61
certificates
details 105
settings 105
charging the battery 15
Clock
alarms 93
settings 93
world clock 93
computer connections 95
See also data connections
conference calls 33
configuration messages 122
connection methods
Bluetooth 96
data cable 95
connections
ending 101
GPRS settings 65, 66
PC connection 67
WLAN settings 66
connectors 12
contact groups
adding ringing tones 29
creating 28
making conference calls 28
contacts
adding 28
adding ringing tones 29
searching 28
settings 29
contacts directories
managing 28
contacts key 26
converting
currencies 91
measurements 91
currency conversions 91
data connections
PC connectivity 95
date
settings 115
decrypting
device memory and memory card 104
destination
removing 73
setting 73
Device manager 9
display
changing the look 87
indicators 20
settings 113
E
e-mail 48
e-mail retrieval settings 61
connecting to mailbox 49
connection settings 60
creating folders 50
deleting 50
POP or IMAP 48
replying 49
retrieval settings 61
sending 50
setting up 48
user settings 60
writing 50
e-mail key 26
e-mail key settings 115
EAP
plug-in settings 120
using an EAP plug-in 120
encrypting
device memory and memory card 104
ending
internet connections 64
network connections 101
enhancements
remote SIM access 98
settings 115
equalizer 79

F
feeds 64
File manager 90
files
downloading 80
flash files 82
sending 90
fixed dialing 104
flashlight 29
free memory 102

G
Gallery 80
GPRS
access point settings 65
advanced access point settings 66
settings 118

H
headset
connecting 16
home key 25
home screen 24
settings 87, 114
switching 25

I
IM
application settings 57
blocking users 57
groups 56
settings 55
starting a conversation 56
images
adding to contacts 81
display background 81
rotating 80
sending 81
sharing online 79
zooming 80
indicators 20
inserting
battery 14
memory card 15
SIM card 14
installation log 107
installing
applications 107
internet 63
ending connections 64
internet calls 35
Internet radio
listening 84
saving stations 84
searching 84
settings 85
intranet
browsing 65

J
jad files 107
jar files 107

Java applications 107, 108
!
key store 106
keyguard 22
keypad
lock settings 116
locking 22
tones 114
keys 12
activation keys 109
shortcuts 114
WEP keys 119

L
landmarks
categories 74
creating 73
editing 74
receiving 74
sending 74
language
settings 114
lock code 102, 116
locking
device 102
device autolock 116
keypad 22, 116

Log 43
adding numbers to Contacts 43
deleting 43
making a call 44
sending messages 44
settings 44
transfer log 20
logos
welcome logo 113
M
Mail for Exchange 48
mailboxes
connecting 49
creating 48
making a call 32
Maps 69
browsing 70
driving 72
finding locations 70
indicators 70
routes 71
traffic information 72
travel guides 72
walking 71
measurements
converting 91
measuring system
changing 73
memory 102
memory card
backing up data 106
 ejecting 15
 formatting 103
 inserting 15
 locking 103
 microSD 103

passwords 103
setting password 90, 103
unlocking 103
menu 18
message reader 46
selecting voice 46
messages 45
call declining messages 116
cell broadcast settings 61
configuration broadcast messages 122
other settings 61
sending sound clips 54
service messages 58
text message settings 59
Messaging
folders 45, 46
microSDHC 103
modem 67
multimedia messages
attachments 54
creating 52
creating presentations 53
forwarding 54
receiving 53
replying to 53
sending 52
sending options 55
settings 59
multitasking 29
Music player
Music Store 78
playing 77
playlists 78
Music Store 78

N
net calls 35
alert settings 116
connecting 35
making a call 35
profiles 34, 122
restricting 38, 39
settings 122
network
settings 117
Nokia Ovi Player 78
Nokia support information 9
Notes 94
notification light 114
O
One-touch keys 114
operator
selecting 117
original settings 116
Ovi 30
Ovi Contacts 30
Ovi Files 30
Ovi Store 29
P
packet data
access point settings 65
advanced access point settings 66
profiles
creating 86
customizing 86
net call profile 34, 122
selecting ringing tones 86

PTT
contacts 42
created calls 42
creating a channel 43
exiting 43
logging in 42
making a call 42
settings 42

radio
listening to 83
saved stations 83
settings 83
viewing visual content 83

RealPlayer
playing media clips 81
sending files 82
settings 82
viewing clip details 82

recorder
playing recordings 80
recording a sound clip 79
settings 80

recording
sound clips 79
video clips 75

remote configuration 9

remote lock 102
remote synchronization 110
restoring original settings 116
ringing tones 114
3-D 88
contacts and contact groups 29
in profiles 86
vibrating alert 114

satellite signal strength 73

saving
current position 73
files 21
settings 21

search modes
switching 28

searching
available WLANs 101

security
Bluetooth 98
device and SIM card 116
Java application 108
memory card 103

security module 106

sending
files 21, 90
using Bluetooth 96
videos 33

service commands 58

service messages 58
settings 61
session initiation protocol
See SIP

settings
Active notes 89
advanced WLAN 118
application installations 107
applications 122
Calendar 27
calls 116
camera 76
cell broadcast 61
certificate 105
clock 93
contacts 29
date 115
display 113
e-mail connection 60
e-mail key 115
e-mail retrieval 61
e-mail user 60
EAP plug-ins 120
enhancements 115
GPRS 65, 66, 118
home screen 114
IM 55
Internet radio 85
Java application security 108
keypad lock 116
language 114
Log 44
multimedia messages 59
net call 122
network 117
packet data 118
podcasting 77
positioning 69
printer 92
PTT 42
radio 83
RealPlayer 82
recorder 80
restoring 116
service messages 61
SIP 121
text messages 59
time 115
tones 114
voice commands 41
web 64
WEP security 119
WLAN 118
WLAN access point 66, 67
WLAN security 119
Settings wizard 17
shortcuts 123
keys 114
signal strength 20
SIM access profile 98
SIM card
inserting 14
text messages 51
SIP
creating profiles 121
editing profiles 121
editing proxy servers 121
editing registration servers 121
settings 121
sis files 107
sisx files 107
software packages
installation settings 107
installing 107
software updates 10
sound clips
recording 79
sending 54
Speech 46
standby mode
settings 114
support 9
switching device on and off 17
Symbian applications 107
synchronization 20
settings 110
synchronization profiles 110
synchronizing
applications 110
T
tabs 21
text
changing size 113
predictive input 23
writing 23
text messages
messages on SIM card 51
sending 50
sending options 51
settings 59

© 2010 Nokia. All rights reserved.
writing 50
themes
changing 87
downloading 88
time
settings 115
tones 114
settings 114
Touch tones 39
Transfer
log 20
transferring data 19
transferring music 78
trip destination 73
trip meter 73
troubleshooting 128

U
updates 10
UPIN code
changing 116
USB data cable 95

V
vibrating alert 114
video calls
making a call 33
switching to voice call 33
video clips 75
details 82
playing 81
sending 82

video sharing 33
receiving invitations 34
virtual private network
access points 111
use in applications 112
Voice aid 40
voice commands
changing profiles 41
launching an application 41
settings 41
voice mail
calling 39
changing number 39
voice over IP 35
VoIP 35
volume 23
VPN
access points 111
use in applications 112

W
wallpaper 81
warning tones 114
Web
connection security 63
web
settings 64
weblogs 64
Welcome application 17
welcome note 113
WEP
keys 119
security settings 119

wireless keyboard 94
WLAN
802.1x security settings 119
access point settings 66
access points 100
advanced access point settings 67
advanced settings 118
availability 99
MAC address 99, 118
searching for networks 101
security settings 119
settings 118
WEP keys 119
WPA security settings 120
WLAN wizard 100
world clock 93
WPA security settings 120
writing 23

Z
Zip manager 91