

Nokia 9290 Communicator User Guide

The wireless phone described in this guide is approved for use in GSM 1900 networks.

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FOR YOUR SAFETY Read these simple guidelines. Breaking the rules may be dangerous or illegal. Further detailed information is given in this User guide.



ROAD SAFETY COMES FIRST Do not use the communicator while driving; park the vehicle first.



INTERFERENCE All wireless phones may get interference which could affect performance.



SWITCH OFF IN HOSPITALS Follow any regulations or rules. Switch off the phone near medical equipment.



SWITCH OFF IN AIRCRAFT Wireless phones can cause interference. Using them on an aircraft is illegal.



SWITCH OFF WHEN REFUELING Do not use the phone at a fueling point. Do not use near fuel or chemicals.



SWITCH OFF NEAR BLASTING Do not use the phone where blasting is in progress. Observe restrictions, and follow any regulations or rules.



USE SENSIBLY Use only in the normal position (to ear). Do not touch the antenna unnecessarily.



USE QUALIFIED SERVICE Only qualified service personnel may install or repair equipment.



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



MAKING CALLS VIA THE PHONE Close the cover and make sure the phone is switched on and in service. Enter the phone number, including the area code, then press . To end a call press . To answer a call press .



EMERGENCY CALLS Close the device cover. Make sure the phone is switched is on and in service. Hold for several seconds, to clear the display. Enter the emergency number, then press . Give your location. Do not end the call until told to do so.



MAKE BACKUP COPIES Remember to make backup copies of all important data.



CONNECTING TO OTHER DEVICES When connecting to any other device, read its user's guide for detailed safety instructions. Do not connect incompatible products.



INFRARED PRECAUTIONS Do not point the IR beam at anyone's eye or allow it to interfere with other IR devices.

DISCLAIMER

It is possible that you may not be able to activate your phone on all wireless systems. Please see your service provider for details.

USING THIS GUIDE

A number of features included in this guide are called Network Services. They are special services provided by wireless service providers. Before you can take advantage of any of these Network Services, you must subscribe to the service(s) from your home service provider and obtain instructions for their use.

CONTACTING NOKIA

To help Nokia promptly answer your questions, please have your phone's model number, IMEI number, and your local zip code ready when you call Customer Service. The IMEI and model number are on the back of your phone under the battery. If you're calling about an accessory, please have it available for reference.

Nokia Customer Care Center

7725 Woodland Center Boulevard

Suite 150

Tampa, FL 33614

Tel: 1-888-NOKIA2U (1-888-665-4228)

Fax: 1-813-249-9619

For the hearing-impaired only (TTY):

1-800-24NOKIA (1-800-246-6542)

Customer Care, Canada

Nokia Products Ltd.

575 Westney Rd. South

Ajax, Ontario L1S 4N7

Tel: 1-888-22NOKIA (1-888-226-6542)

1. Getting started

Congratulations on purchasing the Nokia 9290 Communicator. It is a complete communications tool: it is a wireless phone, messaging device, and a palmtop organizer in one pocketable package.

When you open your sales package, check that it contains the following:

- Two peel-off stickers attached on the sales package.
- The Nokia 9290 Communicator
- Memory card
- The Nokia 9290 Communicator User guide, the Getting Started guide, and the Add-on applications guide
- High Power Battery BLL-3
- ACP-12U Charger
- RS232 DLR-2L Adapter Cable
- CD-ROM with PC connectivity software
- Stickers with the serial number and lock code of the communicator

Using the phone

To be able to send and receive calls and messages on your Nokia 9290 Communicator, you must have the following:

- the phone must be turned on,
- a valid SIM card must be inserted, and
- you must be located in the service area of the wireless network.

Emergency calls to the emergency number 911 may be made without the SIM card.

Tip: To use the online help, open the cover and press the  (help) key.

● **IMPORTANT:** Your communicator can be locked with a lock code. The default lock code is **12345**. For security reasons, it is imperative that you change the lock code. Keep the code secret and in a safe place, separate from the communicator. For more information on changing the lock code, see section 'Security' on page 256 of the user guide.

First start-up

● **Note:** Keep all miniature SIM cards out of the reach of small children.

- 1 Close the device cover and ensure that the phone is turned off. If it is on, press .
- 2 If the battery is connected to the communicator, remove the battery. Press the catch at the top of the of the battery and lift the battery away from the battery cavity. See Figure 1.

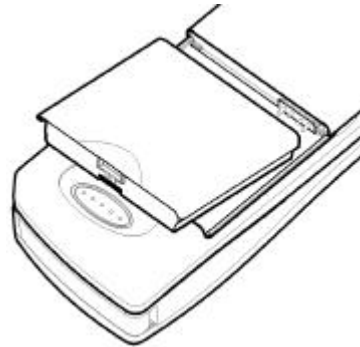


Figure 1

- 3 Slide the SIM card into the SIM card slot: ensure that the gold contacts of the SIM card are facing down and that the bevelled corner of the card is on the right. See Figure 2.

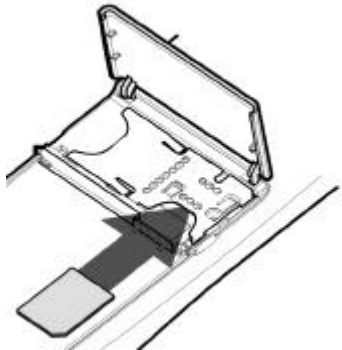


Figure 2

When the card is properly inserted into the SIM card slot, the bevelled corner remains visible, as shown in Figure 3.

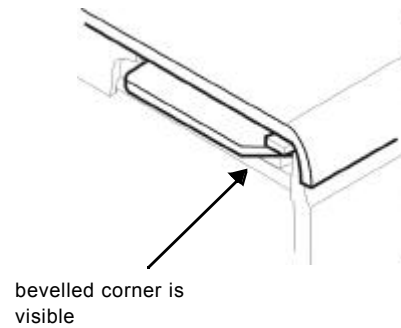


Figure 3

- 4 When you are sure that the SIM card is correctly installed, replace the battery. If there is little or no charge in the battery, it is recommended that you connect the communicator to the charger and start charging the battery before continuing with the start-up procedure.
- 5 Open the cover of the communicator. You will see a welcome screen while the communicator performs a self-test.
- 6 After the self-test is complete, if the choice of multiple keyboard layouts is supported, you will be prompted to select the correct keyboard setup. Press **OK** to confirm the keyboard selection.
If not, you will see a list of cities on the display.

- 7 Scroll to the name of your home city with the Arrows key and press **OK**. A view showing the current time and date opens.
You can search for a city by typing the name of the city in the search field at the bottom of the view.
 - 8 Change the time and date if necessary and press **OK**.
 - 9 Next you can modify your personal information in a business card. Press **OK**.
If a valid SIM card is inserted in your communicator, the business card may have retrieved some information from the SIM card.
 - 10 A note confirming that you have completed start-up successfully appears. Press **OK**.
- **Note:** The battery does not fit into place if the SIM card is not correctly installed. Do not force the battery into place! Check that you have inserted the SIM card into the slot as described above. If the SIM card is incorrectly installed, remove it by pulling it out of the slot, and insert it again.

Charge the battery

- 1 Connect the charger cable to the bottom of the communicator, as shown in Figure 4.

■ **Tip:** You can later change the home city, time zone, date, and time formats of your communicator in the Control panel with Date and time and Regional settings applications.

■ **Tip:** You can later attach a picture to your business card in the Contacts application.

■ **Tip:** To see the current battery level, see the battery indicator  on the communicator or phone display.

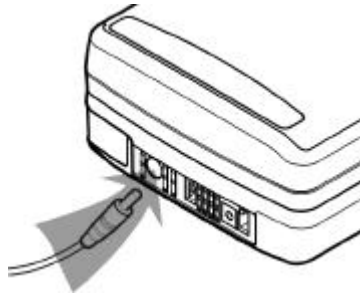


Figure 4

- 2 Connect the charger to the proper voltage AC wall outlet. While charging is in progress, the battery charge indicator scrolls on the phone display.
 - 3 When the battery is fully charged, the bars stop scrolling and four bars are displayed. You may now remove the charger plug from the communicator.
- **Note:** The communicator can be used normally during charging.

Communicator interface

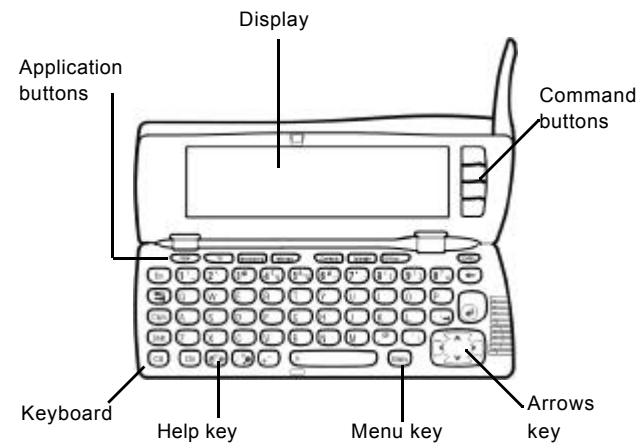


Figure 5

The main features of the communicator interface, including the display, are shown in Figure 5. The display is turned on simply by opening the cover. The application that was active the last time the communicator was used is shown on the display.

When you close the cover, the communicator interface saves all data and turns off its display.

● **Note:** You need not specifically save information. When you press **Close**, switch to another application, or close the device cover, the Nokia 9290 Communicator saves all data automatically.

Tip: You can select running applications in the 'Task Menu' at the left-hand end of the menu bar.

Use the applications

The buttons at the top of the keyboard start the corresponding applications. The application buttons are: **Desk**, **Telephone**, **Messaging**, **Internet**, **Contacts**, **Calendar**, **Office**, and **Extras**.

To switch to another application or application group, press the corresponding application button. You can do this even during a call. You need not exit any application before starting another. All inactive applications remain in the background until you start them again.

Display elements

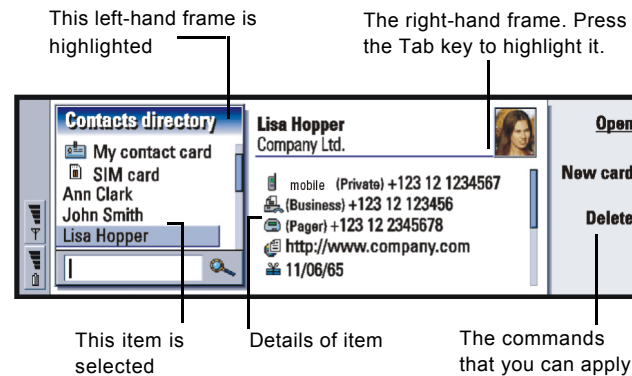


Figure 6

The main elements of the display are shown in Figure 6. Commands always relate to the four command buttons on the right side of the display. In the guides, commands are in **bold** and items shown on the display and on the menu bar are in italics.

The scroll bar indicates that there are more items than currently shown on the display. You can scroll the display with the Arrows key at the bottom right-hand corner of the keyboard.

When there is a search field at the bottom of the display, you can search for items by using the keyboard to enter text into the search field.

If there is more than one frame in the view, the selected one is always highlighted.

To move around a selected frame and select items, use the Arrows key.

Press the Menu key to get access to menu commands.

■ **Example:** When the user guide instructs you to 'press **Open**', it means that you must press the command button next to the command name **Open**.

Setup configuration

To access the Internet, WAP services, and your remote mailbox, you need to configure the relevant settings.

● **Note:** To help you configure these settings, see the Settings checklist delivered in your sales package. In the checklist you can see the information you need, where to get it from, and where to enter it in your communicator. More importantly, add the information to the checklist for future reference and use it to communicate with your service providers about the information you need to receive from them.

- 1 Press the Extras application button on the keyboard.

Tip: For help on the information required in this and the next dialogs, press the  key on the keyboard to view the online Help; also, see the User guide.

Tip: To move between pages, press the Menu key.

Tip: For details, see the Internet chapter of this guide.

- 2 Select the *Internetstartup* icon with the Arrows key and press **Open**. Three icons appear: *Internet access*, *WAP access*, and *Mail account*.
- 3 Select *Internet access* and press **Open**. A dialog opens.

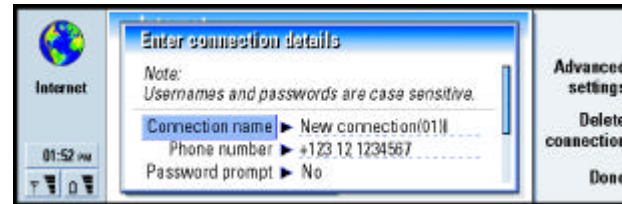


Figure 7

- 4 Enter the details and press **Advanced settings**. A dialog with four pages opens. Enter the details on each page. On the *Other* page, press **Address options**. A dialog opens.



Figure 8

Define the IP and DNS addresses.

Press **Done** to return to the view with three icons.

- 5 Select *WAP access* and press **Open**. A dialog opens.

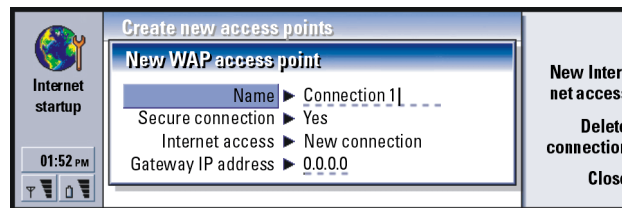


Figure 9

Enter the details on each page and return to the view with three icons by pressing **Close**.

- 6 Select *Mail account* and press **Open**. A dialog with four pages opens. Enter the details on each page and return to the view with three icons by pressing **Done**.

● **Note:** For more information on defining your Internet and mail settings, see the Internet and Messaging chapters of the User Guide.

■ **Tip:** For details, see the Messaging chapter of the User guide.

PC connectivity

You can connect your communicator to a compatible PC or laptop using the PC Suite for Nokia 9290 Communicator program found in the communicator sales package CD-ROM. The CD-ROM also contains PC Suite Guide in the *Using Nokia 9290 Communicator* section.

PC Suite for Nokia 9290 Communicator is a PC application that works with Windows 95/98, 2000, and NT. It integrates the file system of your communicator to the file system of your PC, allowing you to quickly and easily move, copy, rename, and delete files and folders on and between your communicator and your PC.

With PC Suite you can synchronize application data like contacts or e-mails between your communicator and your PC and back up data to your PC. You can also automate synchronisation and backups so they happen at predefined times or on connection.

You can also use PC Suite when it is not connected to your communicator (offline mode). When you connect the two devices the next time, the changed information can be updated from your PC to your communicator and vice versa.

 **WARNING:** Beware of viruses. Only install software onto the communicator that you have obtained from sources that offer adequate protection against viruses. See 'Certificate Management' in the user guide.

Connect your communicator to your PC

- 1 If you use a cable, connect the larger end of the RS-232 cable to the serial (COM) port of the PC, and the smaller end to the connector at the bottom of the communicator.
- 2 If you use infrared or a serial port other than COM1, double-click the PC Suite connection icon on the Windows taskbar and choose the right connection port.
- 3 Open your communicator.
- 4 If you use an infrared link, make sure that the infrared port of the communicator faces the infrared port of the PC. Press Chr +  (the key with the infrared symbol) to activate the infrared link on your communicator. For more information about activating infrared on your communicator, see the User guide.
- 5 Start the PC Suite software on the PC.

The PC Suite software should now connect to your communicator automatically.

Desk

The Desk application group is used for managing and using various links to your favorite applications or third-party software. You create these links in the relevant applications.

Adding a link

- 1 Open the item in the appropriate application.
- 2 Press the Menu key and then select *Add to Desk*

Writing notes

- 1 Press **Write note**. A simple text editor opens.
- 2 Write the note.
- 3 Press **Close** to save the document. The note will now appear in the main view of Desk.

Telephone

Telephone is used for making and receiving voice calls and adjusting the telephone settings. To start Telephone, open the communicator cover and press the Tel application button on the keyboard. Many of the actions you do in the Telephone application you can also do using the front cover of the communicator.

To make phone calls,

- the phone must be switched on,
- the communicator must have a valid SIM card fitted, and
- you must be located in a service area of the wireless system.

Making a call

There are two main ways to make a call:

- Select a contact from the Telephone directory and press **Call**. If the contact has only one phone number, the number is called immediately.
- If the contact has several phone numbers, a list opens showing the phone numbers; choose a number from the list and press **Call**.
- Enter the phone number in the search field at the bottom of the main view and press **Call**.

Answering a call

When you receive a phone call, a note appears on the display. Depending on the profile settings, you may also hear a ringing tone.

To answer the call, press **Answer**.

If you do not wish to answer it, press **Decline**.

Flight profile

The Flight profile prevents you from accidentally turning on the phone in an aircraft. To select the Flight profile:

- 1 In the Telephone main view press Menu key, scroll across the menu bar to the Profiles icon , then highlight *Flight*.

2 Press **Select**.

With the Flight profile active, you may perform tasks which do not require communication with the wireless network. For example, you can read previously downloaded mail, write mail, notes, short messages, faxes, or update your calendar. Once you have left the aircraft, turn off flight profile in the Telephone application by pressing **Exit profile**. Then you can turn on the phone by pressing , and your short messages, faxes, and mail will be sent automatically.

When the communicator is in the flight profile, emergency calls must be made from the phone (close the communicator cover) as follows:

- 1 Press . The phone display will read *Flight profile is active*.
- 2 While the note is visible (for approximately five seconds) you can dial an emergency number programed into your communicator, for example 911.
- 3 Press .

● **IMPORTANT!** Never use the phone when in an aircraft. If the aircraft personnel allow use of the communicator interface, you **MUST** activate the Flight profile. The Flight profile will allow use of the communicator interface only and will prevent use of the phone. Be aware that all communications applications require use of the phone.

Messaging

Messaging contains the following applications: Fax, Mail, and SMS (Short Messaging Service). Start Messaging by pressing the Messaging application button on the keyboard.

To send and receive faxes, mail and short messages,

- the phone must be turned on,
- the system you are using must support fax calls, data calls, and SMS,
- the fax, data, and SMS services must be activated for your SIM card,
- you must have obtained an Internet Access Point (IAP) from an Internet service provider and have entered the proper Internet and Mail settings
- the SMS message center number must be stored in the settings of the SMS application.

Contact your home service provider for details.

● **Note:** The Nokia 9290 Communicator mail system is compliant with the Internet standards SMTP, IMAP4, and POP3.

Write and send faxes, mail, and short messages

You write, edit, and send faxes, mail, and short messages in their corresponding editors, which you can enter in any one of three ways:

- Write and format text in any application that allows it in the communicator. To send the text, press the Menu key, select *File > Send* and select one of the sending options available in the submenu.
- Press any of the following commands in the main view of Messaging: **Write fax**, **Write mail**, or **Write short message**.
- Press the Menu key in the main view of Messaging and select *Write > New message...* Then select the appropriate message type.

Select recipients

● **Note:** A fax or a short message can have only one recipient.

There are two ways to select recipients to your fax, mail, and short messages:

- 1 Press **Recipient** in the corresponding message editor. A dialog listing your contacts opens.
Search for a contact or contacts in the left frame and press **Select**.
- 2 Press **Done**.

Alternatively, type the name of the recipient into the header of the fax, mail, or short message and check it against your contacts database.

Receive and read faxes and short messages

Faxes are received automatically, provided that this service is available, the phone is turned on, and within wireless network coverage. Short messages are received automatically, provided your phone is switched on.

There are two ways you can read a received fax or short message:

- When you see a note on the display or hear a tone indicating a received item, press **Open**. The tone will sound only in certain conditions.
- Go to the Messaging application. From the Inbox, select the received item and press **Open**. The fax or short message opens in the appropriate viewer.

Retrieve and read mail

Mail addressed to you is not automatically received by your communicator, but by your remote mailbox. To read your mail, you must first connect to the remote mailbox and then select the messages you wish to retrieve to your communicator. Connection to a remote mailbox is established via a data call.

Connect to a remote mailbox

- 1 Select the remote mailbox in the left frame of the Messaging center main view.

- 2 Press **Retrieve mail**.
- 3 When the connection to the remote mailbox has been established, press the Menu key and select *Retrieve* > *New* or *Selected* or *All* mail messages.
- 4 When all the mail messages you have requested are retrieved, press **Go offline**.
- 5 Select a mail that you wish to read and press **Open**.

● **Note:** You can define your remote mailbox account settings to retrieve only message headers. When you retrieve your mail using these settings, you will be prompted to download the rest of the selected message after you press **Open**.

Internet

To obtain access to the Internet,

- the wireless system you use must support data calls,
- the data service must be activated for your SIM card,
- you must have obtained an Internet Access Point (IAP) from an Internet service provider (ISP), and
- you must have entered the appropriate Internet settings. Follow the instructions in the User guide. Use the single card Settings checklist in the sales package to record your settings.

Your ISP will give you instructions on how to configure the Internet settings. Follow the instructions carefully.

● **Note:** You must have your phone turned on, within network coverage, and free of any other voice or data call to connect to the Internet.

To establish an Internet connection:

- 1 Press the Internet application button on the communicator keyboard.
- 2 Select the application you want, for example WWW, and press **Open**. When the application needs to make a connection, a dialog opens, showing the *Connection name* and *Phone number* of the Internet access point you are using to establish a connection.
- 3 Press **OK** to establish a connection.
- 4 To close an application, press **Done**.
- 5 To disconnect from the Internet, in any of the Internet applications, press the Internet application button on the keyboard and press **Disconnect**. Disconnection is immediate.

World Wide Web (WWW) browser

The WWW is a hypertext system for finding and accessing resources on the Internet. To navigate in the World Wide Web:

- 1 Press the Menu key and select *File > Open > Web page...*
- 2 Enter a URL address into the address field or select a bookmark in the Bookmarks list and press **Go to**. You can also navigate to other sites from the opening page of your WWW browser.
- 3 When a page is retrieved and open, to select links or hotspots, press the Tab key. To move backwards, use Shift+Tab. Alternatively use the Pointer tool; you can turn it on via the shortcut Ctrl+Q. For more information on the Pointer tool, see the User guide.
- 4 To go to another page or site, select a hyperlink or hotspot and press **Go to**.

Example: An example of a URL address is:

www.Nokiausa.com.

 **Tip:** Some Web sites require your user name and password before the WWW page can be retrieved.

WAP

The WAP services application is a hypertext system used to access Internet services containing news, weather reports, flight times, dictionaries, and so on. It is intended for mobile users with mobile devices.

To obtain access to WAP services:

- you need to be within the coverage area of a system which supports data calls,
- a data service must be activated for your SIM card,
- you must have obtained a WAP access point from a WAP service provider, and
- you must have entered the WAP settings. Follow the instructions in the User guide.

Navigate WAP services

To open a WAP page:

- 1 Press the Menu key and select *File > Open page*. A dialog opens. Enter the address of the URL, for example: *www.nokia.com*. Use the Arrows key to scroll the view to choose hyperlinks and hotspots.

● **Note:** Some servers have access restrictions that require a valid user name and password. In this case, you will be asked to enter the user name and password before a connection to the service can be established.

Contacts

Start Contacts by pressing the Contacts application button on the keyboard. Use Contacts for creating, editing, and managing all contact information, such as phone numbers and addresses. The entries in the Contacts directory are called

contact cards. You can synchronize your contacts with a compatible PC. For more information on synchronizing contacts, see the PC Suite Guide on the sales package CD-ROM.

The main contacts database is in the communicator's memory. You can also store contacts in separate databases on an attached memory card.

Making a contact card

- 1 In the Contacts main view, press **New card**.
- 2 When the contact card opens, enter information in the various fields.
- 3 To save your contact card, press **Done**.

Calling a contact

The Contacts main view consists of two frames, left and right. Press the Tab key to move across to the right-hand frame. Highlight a telephone number of the contact and press **Call**.

Calendar

In the Calendar application, you can check your scheduled events, appointments, anniversaries, birthdays, as well as list things to do. You can set alarms to all of the calendar entries. To start the Calendar application, press the Calendar application button on the communicator keyboard.

You can synchronize your calendar and tasks with Microsoft Windows and Lotus programs when you connect your communicator to a compatible PC. For more information on synchronization, see the PC Suite Guide on the sales package CD-ROM.

Create a new calendar entry

One way to create a new calendar entry is:

- 1 Press the Menu key and select *File > New entry*. Select the entry you wish to create: *Appointment...*, *Event...*, *Anniversary...*, or *Task...*
- 2 Enter information into the fields in the pages of the dialog.

Month view

The month view is the main view of Calendar. If you have entered information into Calendar for a particular month, you will see a list of events on the right-hand side of the display. To edit an event:

- 1 Press the Enter key or **Edit day** to highlight the right-hand frame.
- 2 Select the event, and press **Edit**. The entry details form opens.
- 3 Change the information about the entry as necessary.

Week view

The week view shows the timetable of the selected week. To check the week view, press **Change view** and select *Week*.

Day view

The day view displays entries of the selected day. To open the day view, press **Change view** and select *Day*.

Task lists

The task lists show one task list at a time. You can use task lists to list and organize tasks. You can set deadlines dates and priorities for your tasks. You can also have several task lists, for example, one for business tasks and another for personal tasks.

Other views

The communicator contains other views, such as the Year schedule and the Anniversaries view.

Office

Office contains the following applications: Document, Sheet, Presentation viewer, and File manager, which are all compatible with Microsoft Windows.

Create a document

When you open the Document application, a new file is opened. You can start writing immediately.

To save the document, press **Close**. A dialog opens. You should now name the document and choose the folder in which you would like to save it.

 **Tip:** To add a worksheet to the Desk application, press the Menu key and select *File > Add to Desk*.

Sheet

In Sheet you can work and store your data in a file that is called a workbook. Each workbook contains at least one worksheet. A workbook can also contain chartsheets; a chartsheet is a spreadsheet document containing a chart that is based on data from a worksheet.

Create a workbook and worksheets

To create a new workbook, press the Menu key and select *File > New workbook*

To save a workbook, press the Menu key in the worksheet view and select *File > Save*

To create a new worksheet in a workbook, press the Menu key and select *Insert > New worksheet*

To enter data, select a cell with the Arrows key and start typing the data in the selected cell.

To confirm what you have entered in a cell, press Enter, **OK**, or go to another cell with the Arrows key. To dismiss the action, press Esc or **Cancel**.

To determine the category to which you want the data in the cell to belong, press **Function**. The categories are as follows: *All*, *Financial*, *Date and time*, *Mathematical*, *Statistical*, *Lookup*, *Text*, *Logical*, and *Information*. Each category has a set of functions, which you can see from the list next to *Function name*

Create chartsheets

There can be seven different kinds of charts: *Column*, *Stacked column*, *Line*, *Pie*, *Bar*, *Stacked bar*, and *X/Y scatter*.

- 1 Select a range of cells on a worksheet. These will provide the data for your new chartsheet.
- 2 Press the Menu key and select *Insert > New chart*. A dialog opens.
- 3 Define the following: *Chart name*, *Chart type*, *3-D*, *Background color*, and *Axis color*.
- 4 Press **Close** to create a new chartsheet and **Cancel** to dismiss it.

Presentation viewer

To open a presentation press **Open** in the Presentation main view to select and view a document. To close the application, press **Close**.

When a document is opened, the top of the first slide is shown. To view the next slide, press **Next** or Enter. To view the previous slide, press **Previous**. To scroll the current slide, use the Arrows key.

 **Tip:** You can zoom in and out to get a better view of the presentation.

File manager

You can use File manager to manage the contents and properties of various folders.

In the folder frame, the tree can contain folders from two roots, the communicator and memory card.

Under the communicator root there is *C:\Documents* folder that contains four default folders: *\Documents\Downloaded*, *\Documents\Photo gallery*, *\Documents\Templates* and *\Documents\Tones*.

In the files frame, the file list shows all the files that can be found from the source or folder currently selected in the left frame. The title of the file list frame shows the path of the currently selected file. The file list frame also shows the application-related icon, name, and the last modification date of the file. The files are sorted in alphabetical order.

View the contents of a folder

- 1 Choose a folder in the left folder tree frame and press **Open**.
A view of all the subfolders and files of the parent folder opens.
- 2 To view any possible subfolder, select it and press **Open**.
- 3 Press **Done** to return to the main view.

Open a file

- 1 Select a file and press **Open**. The file will then open in the corresponding application.
- 2 To return to the main view, press **Close folder**.

Create new folders

- 1 Press the Menu key in the main view of File manager and select *File > New folder*. A dialog opens.
- 2 Name the new folder.

Search for files and folders

- 1 Choose the folder or memory storage where you want the search to take place.
- 2 Press the Menu key > *Tools > Find...* A dialog opens.
- 3 Type in the field the string you wish to search for.
- 4 Press **Options** to define the search in more detail.
Press **Change** to change the value of a list item.

When ready, press **Close**.

- 5 Press **Find** to start the search.
To interrupt the search, press **Stop**.
- 6 When the search is over, press **Open** to open the folder or file found.
To start a new search, press **New find**.
- 7 To return to the main view, press **Close**.

Extras

Press the Extras application button on the keyboard to see extra applications. To start an application, use the Arrows key to highlight an application and press **Open**.

You can install additional applications from the CD-ROM in the sales package.

Clock

The Clock shows the time and date in your home city and country, as well as in several other cities and countries in the world. The Clock also includes an alarm clock.

Set an alarm

- 1 Press **Alarm clock** in the main Clock view. An alarm clock view opens.
The currently active alarms are listed next to the clock.
- 2 To create a new alarm, press **New alarm**.
To edit an alarm, press **Edit alarm**.
A dialog opens.
- 3 Define the requirements of your alarm such as the *Time*.

 **Tip:** You can set calendar alarms in the Calendar application.

4 Press **Close** to accept the set alarm.

Turn off the alarm sound

Press **Stop** or any key on the keypad of the phone cover.

Press **Snooze** to silence the alarm for a set time.

Calculator

There are two modes in Calculator: a desk calculator for simple arithmetic operations, and scientific calculator for more complicated mathematical calculations.

There are two ways to perform calculations, either by entering characters in the input field or selecting symbols from the function map. A calculation is executed by pressing Enter or =. The calculation and its result can be seen on the output sheet on the left on the display. To move between the input field, output sheet, and function map, press the Tab key or **Change focus**.

Control panel

In the Control panel you can view or modify the following: *Security, Data call restrictions, Profiles, Display, Accessories, Certificate manager, Date and time, Install/Remove software, Internet access, About product, Memory, Regional settings, and Default folder*

Modifying these features affects the operation of your communicator across all the applications.

To open a program for editing, select it with the Arrows key and press **Open**.

Recorder

The Recorder allows you to record telephone conversations and voice memos. You can also listen to and edit your recordings and other sound files.

▲ **WARNING!** In some states it is unlawful to record a phone conversation without first advising all call participants.

■ **Tip:** With the Recorder you can record sounds and speech and set them as ringing tones.

Phone

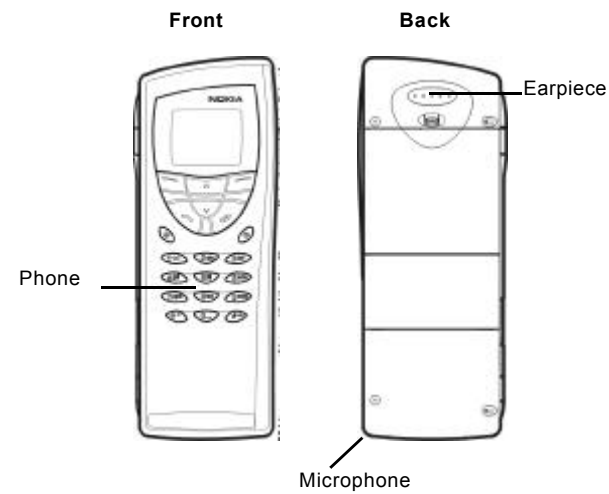


Figure 10

Switch on the phone

- 1 Close the device cover, if it is open.
- 2 Press and hold  to switch on the phone.

If you are prompted for the PIN code, enter your PIN code, which is provided with the SIM card, and press the  key directly under the 'OK' text on the display.

● IMPORTANT! Do not switch on the phone when the use of wireless phones is prohibited, or when it may cause interference or danger.

Display indicators

The display indicators inform you about the current operation of the phone. The indicators described below are shown when the phone is ready for use, with no characters entered on the display.

SYSTEM NAME or LOGO

- Indicates which wireless system the phone is currently using.

 and bars above this symbol.

- Indicates the signal strength at your current location. The more bars are visible, the stronger the signal.

 and bars above this symbol.

- Indicates the remaining charge in the battery. The more bars are visible, the more charge remains in the battery.

For information on other display indicators, see Phone chapter of this guide.

Making and answering calls

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

To answer a call, press .

To end a call, press .

Selection keys

 Switches between profiles.

  Scroll through menus, submenus, or settings. If there are no active calls, you can use the scroll keys to browse through the memory contents. When a call is active, you can adjust the volume level by pressing the scroll keys.

 to  The number and alphabet keys. To call your voice mailbox, press and hold .

  Used for special functions. If you have subscribed to two phone lines, you can switch between them by pressing and holding .

  The function of these two selection keys depends on the text shown at the bottom of the display.

● **Note:** The earpiece and microphone are at the rear of the device.

2. Introduction

The Nokia 9290 Communicator consists of two parts: the phone and the communicator interface. The phone is on the device cover and the communicator interface is inside the cover, as shown in Figure 11.

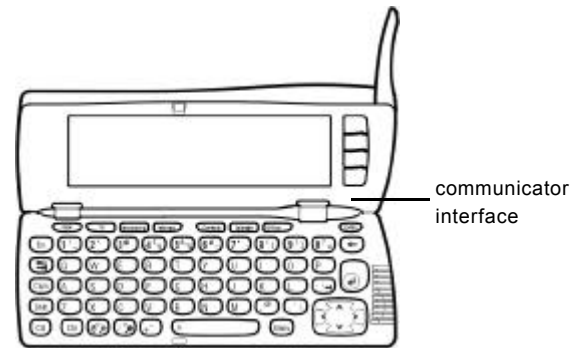


Figure 11

Both these parts use the same information from the memory of the communicator – they are not separate devices. For example, the phone uses the names and phone numbers stored in the Contacts directory of the communicator interface, and the communicator interface uses the phone for voice and data communications, for example, when sending and receiving faxes and connecting to the Internet.

The communicator interface contains many organizer and communications applications. The large keyboard, command buttons, and display make using the applications easy.

The phone is designed for making and answering calls quickly. The communicator looks and operates like other Nokia wireless phones, except the earpiece and microphone are at the rear of the device. The phone is switched on and off by pressing the  button on the cover.

 **IMPORTANT:** Do not switch on the phone when wireless phone use is prohibited or when it may cause interference or danger.

 **Tip:** The communicator interface has no power on/off button – it switches on when you open the cover and switches off when you close the cover.

Getting help

Online Help

The communicator has a help function, which you can access from any application or view.

To view help, press the  key on the communicator interface keyboard. You are shown a page of information relevant to the task you are doing. You can also search the help topics for specific subjects and keywords.

Forum Nokia

The Nokia Wireless Data Forum is a Web service for third parties developing applications and services for Nokia platforms. The Web site provides information on different development possibilities as well as marketing support programs for developers, system integrators, and other Nokia partners.

 **Tip:** The  key is on the bottom row of the keyboard.

The Nokia Wireless Data Forum also offers product support for the Nokia 9290 Communicator and other Nokia wireless data products. The Web site contains documents, drivers, quick guides, information on compatibility issues, and more.

For those interested in data transmissions in mobile networks, the Web site provides documents concerning different technologies related to wireless data.

You can find the Nokia Wireless Data Forum at <http://www.forum.nokia.com>

About the guides in the sales package

The Nokia communicator sales package contains the following guides either in print or as PDF files.

- To help you begin to use your communicator, turn to the Getting Started chapter in the user guide. It explains the start-up procedure and gives basic information on how to use the various applications.
- This user guide explains in more detail how the Nokia 9290 Communicator operates. "General information" identifies the various parts of the communicator and their functions, as well as the common features of the communicator.
The rest of this user guide deals with the communicator applications and the phone. There is a short glossary of Internet and wireless terms and abbreviations at the back of the user guide.
- The PC Suite Guide explains the functionality of PC Suite for Nokia 9290 Communicator. *With PC Suite you can move, copy, synchronize, back up, and restore data between your communicator and a compatible PC.*
- The Software on CD-ROM Guide explains in detail the functionality of the applications found on the CD-ROM that you can install on your communicator.

- The Add-on Applications Guide gives a brief introduction of other software available for the Nokia 9290 Communicator. *This guide is only available in a printed version.*
- The Getting Started guide fold-out poster and the Getting Started CD-ROM helps you to connect your Nokia 9290 Communicator with different kinds of wireless services.

The PC Suite Guide and the Software on CD-ROM Guide are both on the CD-ROM under the section *"Using the Nokia 9290 Communicator"*.

In this user guide in the Getting Started chapter, the names of the commands on the display are in bold and the settings and options are in italics.

Facts about your communicator

About system services

The wireless phone described in this user guide is GSM 1900 MHz.

A number of features included in this user guide are called network or system services. They are special services provided by wireless service providers. Before you can take advantage of any of these services, you must subscribe to the service(s) you require from your home service provider and obtain instructions for their use. You can then activate these functions as described in this user guide. The manual activation commands for various services are not presented in this user guide (for example, using the **#** and ***** characters for activating or deactivating services). The Nokia 9290 Communicator, nevertheless, is capable of handling commands given in that form. For these commands, please consult with your service providers.

 **Tip:** Write the information you obtain from your service provider down on the Getting Started card for future reference.

Services that need to be subscribed to are typically the short message service, Internet, and fax.

Because the number of special services depends on what services are available in your home network, it is, unfortunately, impossible to provide a comprehensive list of the services and settings you need in this user guide. Therefore, this user guide gives general information about additional services. Please contact your service provider for further information about the availability and the details of services in your home system.

If a service requires separate phone numbers or specific settings, they must be stored in the settings of the communicator. For example:

Sending and receiving short messages requires that this service is supported by the system you are using and activated for your SIM card, and that the phone number of the message

is stored in the settings of the SMS application.

Internet access requires that data service is supported by the system you are using and activated for your SIM card. In addition, you must have obtained an Internet access point from an Internet service provider.

Access codes

The Nokia 9290 Communicator uses several access codes to protect against unauthorized use of your communicator and SIM card. The access codes you need most often are:

- the lock code to lock up your communicator, and
- the PIN code, which is provided with the SIM card.

● **IMPORTANT:** The default lock code is **12345**. For security reasons, it is imperative that you change the lock code. Keep the code secret and in a safe place, separate from the communicator. For more information on changing access codes, see section 'Security' on page 212.

You can change access codes that are used by both the phone and the communicator interface via either of them, provided that the code can be changed. For further details on access codes, see 'Security' on page 212.

The Internet applications of the communicator use passwords and user names to protect against unauthorized use of the Internet and its services. These passwords are changed in the settings of the Internet applications.

Contact information

All contact information that you store in the Contacts application, such as names, addresses, and phone numbers, goes into the Contacts directory. The phone, the communicator interface, and each of the applications have their own views of the Contacts directory. The information shown depends on the information the selected application can use. For example, when you are making a call via the phone, you can view the name and phone number(s) of the contact. Possible fax numbers, e-mail addresses, job titles, and so on, are not shown.

■ **Tip:** You can synchronize the contact information on your communicator with a corresponding application on a compatible PC. See the PC Suite Guide on the CD-ROM for details.

GSM data transmission

The Nokia 9290 Communicator employs the data transmission capabilities of the GSM 1900 MHz system to send faxes, short messages, and e-mail, and to establish connections with remote computers.

Wireless data connections can be made from most locations where your phone operates. However, it is recommended that you move the communicator to a location where the strongest possible wireless signal can be obtained. When the signal is strong, data transmission is efficient. In general, you should not expect the same performance from wireless data communications as from landline communications, due to the inherent characteristics of the wireless environment. The following factors may impair wireless connections:

Noise

Radio interference from electronic appliances and equipment, as well as from other phones will affect the quality of wireless data transmission.

Cell handover

As the phone user moves from one network cell to another, the signal strength of the channel drops and the wireless telephone exchange may handover the user to a different cell and frequency, where the signal is stronger. A cell handover may also occur when the user is stationary, due to varying wireless traffic loads. Such handovers may cause slight delays in the transmission.

Electrostatic discharge

A discharge of static electricity from a finger or a conductor may cause erroneous functions in electric devices. The discharge may result in distorted display and unstable software operation. Wireless connections may become unreliable, data may become corrupted, and the transmission halted. In this case you need to end

the existing call (if any), close the cover and switch off the phone (if on) and remove the battery. Then replace the battery and establish a new wireless connection.

Dead spots and dropouts

Dead spots are areas where radio signals cannot be received. Dropouts occur when the phone user passes through an area where the radio signal is blocked or reduced by geographical features or large structures.

Signal impairment

Distance and obstacles can cause signals to become out-of-phase. They can also cause reflected signals. Both situations result in a loss of signal strength.

Low signal strength

Due to either distance or obstacles, the radio signal strength from a cell site may not be strong or stable enough to provide a reliable data connection for communication. Therefore, to ensure the best possible communication, remember the following points:

- The data connection works best when the communicator is in a stationary position. Attempting wireless data communication while in a moving vehicle is not recommended. Fax transmission is more easily impaired than data or short message transmission.
- Do not place the communicator on a metal surface.

- Check that the signal strength on the communicator display is sufficient. Moving the communicator within a room, especially towards a window, may result in a stronger signal. If signals are not strong enough to support a voice call, data connection should not be attempted until you can find a location with better signal reception.
- **Note:** When the antenna is up, the signal is stronger.

3. General information

This chapter explains how the communicator operates and how to supply power to the communicator. For information on first start-up and setup of your communicator, see the Getting Started chapter in this user guide.

Communicator display

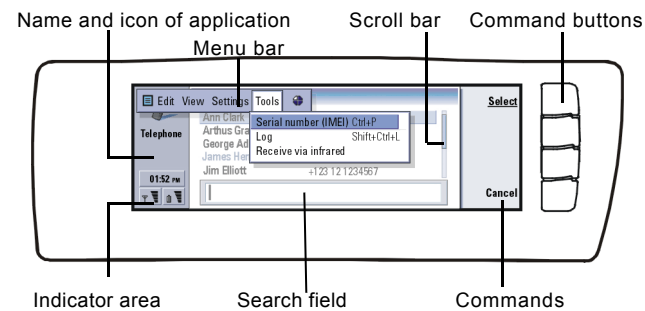


Figure 12

The communicator interface is turned on by opening the cover. The application that was active the last time the communicator was used is shown on the display.

When you close the cover, the communicator interface turns off its display and saves all data.

Tip: When a command is dimmed, it cannot be used.

The commands always correspond to the command buttons, as shown in Figure 13.

The applications are run in the middle of the display. The indicators show application and system-related information.

To move around a selected frame and select items, use the Arrows key at the lower right-hand corner of the keyboard.

Where there is a search field at the bottom of the display, you can search for items by using the keyboard to enter text into the search field.

The left hand frame is highlighted. Press the Tab key to highlight the right frame.



This item is selected. Details of item. The commands that you can apply.

Figure 13

If there is more than one frame in the view, the selected one is always highlighted. You can move from one frame to another by pressing the Tabulator key. See Figure 14.

Dialogs and pages

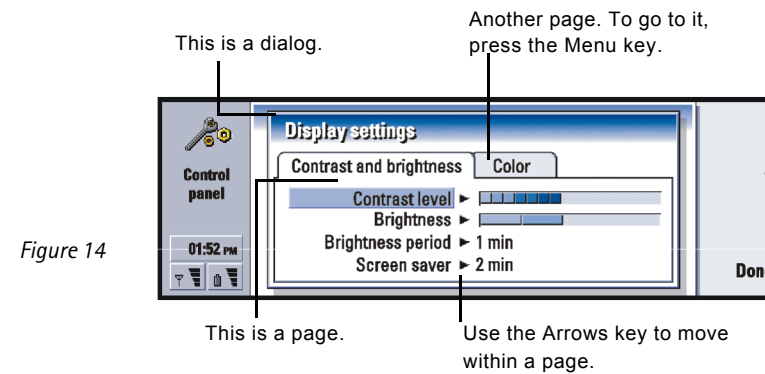


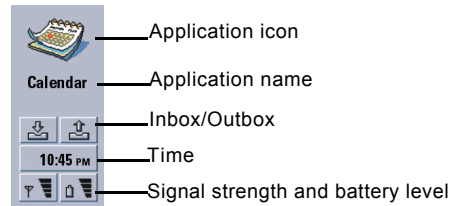
Figure 14

An example of a dialog which contains several pages is shown in Figure 14.

Indicators

The application icon and application name in the indicator area display the application you are in at the moment, as shown below.

The icons that appear on the Inbox/Outbox indicator rows change according to the application and current situation. The battery level and signal strength indicators are the same as shown on the phone display when the phone is on.



Call status

-  - You have a voice call, and the handsfree loudspeaker and microphone are on.
-  - A voice call with the handsfree off. The loudspeaker and microphone are muted.
-  - An open data connection, see the Internet chapter on page 173.
-  - The communicator is receiving or sending a fax.
-  - The communicator is trying to establish an infrared connection.
-  - An infrared connection has been established.
-  - The infrared connection is obstructed.
-  - The communicator is connected to a PC.
-  - The communicator is connected to a PC via cable.
-  - The communicator is being used as a fax modem.
-  - The communicator is in a profile, in this case in the 'Meeting' profile. See 'Telephone Settings' on page 119.



- Time. You can adjust time in the Clock application. See page 253.

Inbox/Outbox



- The inbox indicator informs you that you have received a fax, short message, or mail.



- The document Outbox contains unsent messages. See 'Outbox' on page 203.

Battery level



- The battery is low and you should recharge it.



- The battery is charging. The bar scrolls until the battery is fully charged. The outlet plug icon indicates that the communicator is connected to an external power source.



- The battery is fully charged. All the four bars are displayed.

Signal strength



- The communicator is connected to a wireless system. When all the four bars are shown, the wireless signal reception is good. If the signal is weak, make sure the antenna is up. You can also try to improve the reception by moving the communicator slightly or by using it in the handsfree mode.



- The phone is on, but it is outside system coverage.



- The phone is off. You cannot make or receive calls, and you cannot receive messages with any of the communications applications (SMS, data, fax, or mail).

Communicator keyboard

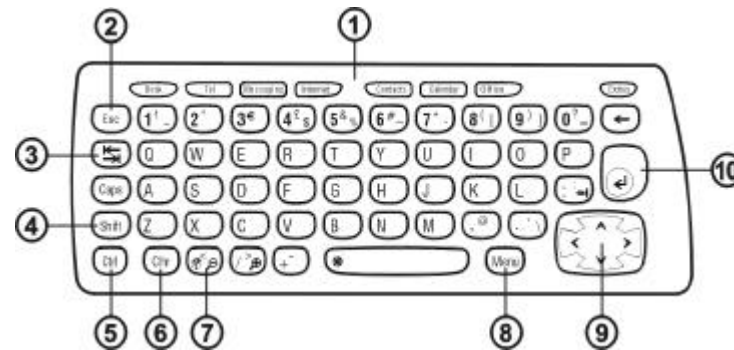


Figure 15

In addition to the normal character and number keys, the keyboard has a number of special keys, as shown in Figure .

① Application buttons

The buttons at the top of the keyboard start the corresponding applications or open application groups. The buttons are: **Desk**, **Telephone**, **Messaging**, **Internet**, **Contacts**, **Calendar**, **Office** and **Extras**.

To use the applications

When the cover is opened, the application that was active the last time the communicator was used, is shown on the display.

To switch to another application or application group, press the corresponding application button. You can even do this during a call. You need not exit an application before starting another. All inactive applications remain in the background until you activate them again.

● **Note:** When you open the WWW application, all other applications are closed to reserve memory for WWW.

To send or receive calls or messages with any of the communications applications, remember that the phone must be switched on and in a service area with adequate wireless signal strength.

● **Note:** Information need not be specifically saved. When you press **Close**, switch to another application, or close the device cover, the Nokia 9290 Communicator saves all data.

Create a keyboard shortcut to a preferred link or application

Some applications buttons like Office, Desk, and Extras do not open applications directly. However, you can specify an application in an application group as the preferred application or a link on Desk as the preferred link and access it directly from the keyboard. You can open a preferred application by clicking Ctrl + the application button.

Example: If you make the Document application preferred inside the Office application group, you can press Ctrl+Office within any application to open Document.

To make an application preferred, open an application group (such as Office), press the Menu key, and select *Tools > Preferred application*. Select the application from the list. See the example in the column adjacent to this paragraph.

To make a link preferred, open Desk, press the Menu key and select *Tools > Preferred link...* Select the link from the list.

② Escape (Esc)

To cancel an action, you can either press the Esc key or **Cancel**. Pressing the Esc key also cancels and dismisses a dialog, and dismisses an information note.

③ Tabulator or Tab

You can use the Tab (Tabulator) key to move from one frame to another. When writing or editing documents, the Tab key moves the cursor to the next tab stop.

④ Shift

The Shift key is used together with letter keys to insert capital letters and used together with number keys to insert special characters. The Shift key does not need to be held down when pressing a key: pressing first Shift and then a letter or number key generates an uppercase or special character.

In combination with Control key and a particular letter key it generates shortcut commands. See 'Shortcuts' on page 74.

In writing and editing text, the Shift key and the Arrows key can be used to select text, see 'Shortcuts' on page 74.

⑤ Control (Ctrl)

Pressed together with other keys on the keyboard, the control key generates shortcut commands which can be used in viewing and writing text. See 'Shortcuts' on page 74.

⑥ Character (Chr)

Press the character key to open a character table where you can select special characters. The character key is also used to access characters and commands that are shown in green color on the keyboard. The character key is also used with other keys to zoom the view and activate or deactivate infrared.

⑦ Help (?)

For online help at any time, press the  key on the communicator keyboard. For more information, see 'Online Help' on page 49.

⑧ Menu

Pressing the Menu key reveals options. The options available depend on the application you are in. Use the Arrows key to move to the desired option and press **Select**.

The chosen option only affects the item that is currently selected, open, or being sent. The Menu may also contain the generic option *Settings*.

 **Tip:** Using the menu key, the *Zoom* option is sometimes available. It allows you to magnify the view on display.

■ **Tip:** In the WWW browser application, use the Arrows key to move a pointer around the display. See page 187.

⑨ Arrows key

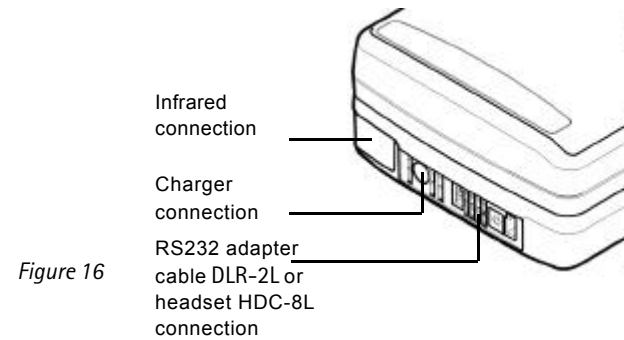
The Arrows key can be used to move the cursor or selected frame.

⑩ Enter

When the cursor is shown, pressing Enter moves the cursor to the beginning of the next text line or adds a new line. Enter can also be used to open folders, applications, and documents. When a command is underlined, you can press Enter instead of the command button. When information notes are shown, press Enter instead of **OK**. In options and settings, when a value can be toggled, you may press Enter instead of **Change**.

Connectors

The Nokia 9290 Communicator can be connected to a variety of devices. See Figure 16.



Use the infrared port for connecting to a compatible PC, printer, digital camera, or another communicator.

Charging the battery

● **Note:** See important safety information on battery usage on page 69.

- 1 Connect the charger cable to the bottom of the communicator, as shown in Figure 17.

■ **Tip:** To check the current battery level, see the battery indicator  on the communicator or phone display.

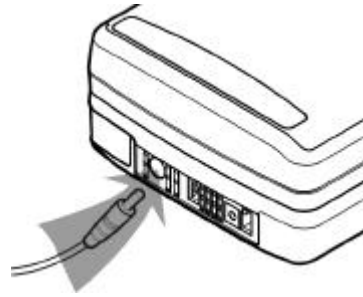


Figure 17

- 2 Connect the charger to the proper voltage AC wall outlet. While charging is in progress, the battery level indicator scrolls on the phone display.
- 3 When the battery is fully charged, the bars stop scrolling and four bars are displayed. You may now remove the charger plug from the communicator.

● **Note:** You can use all the features of the communicator during charging.

When the battery level is low and only a few minutes of operation time remain, a warning tone will sound, and the message BATTERY IS LOW will be repeated at regular intervals on the phone display. When the charge level becomes too low for operation, the RECHARGE BATTERY message will be displayed, accompanied by a warning tone. If you do not connect the communicator to a charger, the communicator switches itself off.

● **Note:** When you connect a communicator with a fully discharged battery to a charger, it will take 30-60 seconds before the CHARGING message appears on the display and the battery indicator bar starts scrolling. After that, it may take 10-30 seconds before you can switch the phone on.

Battery information

Use the battery only for its intended purpose.

Never use any charger or battery that is damaged or worn out.

Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (for example coin, clip, or pencil) causes direct connection of the + and - terminals of the battery (metal strips on the bottom of the battery), 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.

Leaving the battery in hot or cold conditions, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between +15°C (+59°F) and +25°C (+77°F). A communicator with a hot or cold battery may temporarily not work, even when the battery is fully charged. The performance of Lithium-ion batteries is particularly limited in temperatures below 0°C (+32°F).

Do not dispose of batteries in a fire!

Batteries must be recycled or disposed of properly. Batteries must not be disposed of in municipal waste.

Note that a new battery's full performance is achieved only after two or three complete charge and discharge cycles.

Use only batteries approved by the communicator manufacturer and recharge the battery only with the chargers approved by the manufacturer. With approved chargers and accessories, the battery can be charged continuously.

 **Tip:** Read this section for information on how to prolong the life of your battery.

The battery need not be fully discharged before recharging. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for longer than a week, since excessive charging may shorten its life. If left unused, a fully charged battery will discharge itself over time.

The battery can be charged and discharged hundreds of times, but it will eventually wear out. When the operating time (talk-time and stand-by time) is noticeably shorter than normal, it is time to buy a new battery.

Temperature extremes will affect the ability of your battery to charge: allow it to cool down or warm up first.

Battery operation time is affected by the following: whether both the phone and the communicator interface are on, radio signal strength, various phone settings, and the length of the screen blanker period.

It is recommended always to keep a charged battery in the communicator. Keeping the battery charged maximizes the lifetime of the backup battery supplying power to the real-time clock of the communicator. In case the backup battery is drained, it will be automatically charged the next time a charged battery is reconnected to the communicator.

Always close the device cover before removing the battery. Closing the cover will save all data.

● **Note:** The battery does not fit into place if the SIM card is not correctly installed. Do not force the battery into place! Check that you have inserted the SIM card as described in the Getting Started Guide. If the SIM card is incorrectly installed, remove it by pulling it out of the slot, and insert it again.

Memory card

You can use the memory card delivered in your sales package to manage your documents, contacts databases, applications, backups, and so on.

Use the items on the memory card in the same way as corresponding items on the communicator. You can, for example, install and remove software to and from the memory card with the Install/Remove software application, and send messages to contacts in the contacts directory of the memory card.

● **Note:** Do not remove the memory card in the middle of an operation.

Inserting the memory card

- 1 Close the device cover and make sure that the phone is switched off. If it is on, press .
- 2 Open the hatch at the back of the communicator, using a minimum of two fingers - one finger on each side of the hatch.
- 3 Slide the memory card under the memory card holder as shown in Figure 18. Make sure that the gold contacts of the card are facing down.

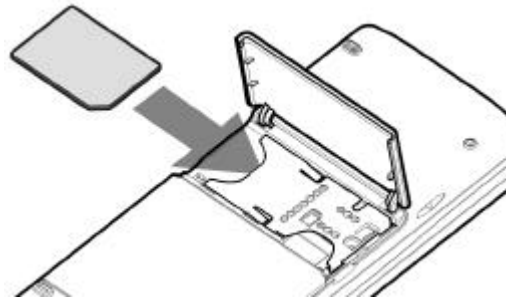


Figure 18

4 When you have secured the card in place, close the hatch.

▲ **WARNING:** Keep all memory cards out of the reach of small children.

General features

Select several items at once

Where multi-selection is available, you can select several items at once. The selected items are highlighted. The commands you use affect all the selected items. Multi-selection works in most lists.

To select items one by one, scroll to the item and press and hold down Ctrl. While pressing down Ctrl, scroll to each item you want to select and press space bar.

To select a larger set of consecutive items, point the items by pressing and holding Shift + using the ^ and v arrows on the Arrows key.

Multi-selection is cleared when you press the Arrows key.

Special characters

The character key Chr on the communicator keyboard is used to create characters that are not included on the keyboard. The character key can always be used when you are able to enter characters from the keyboard.

● **Note:** Some special characters may get distorted when sent out of your communicator. This happens, for example, with mail or short messages, and is because of differences in system protocols.

Insert special characters from the character table

- 1 Press and release the Chr key. A dialog opens.
- 2 Press the Menu key to select the page with the character you want to insert.
- 3 Select the special character or characters, then press **Insert**.

Insert special characters from the keyboard

There are two ways to insert special characters directly from the keyboard.

To insert a characters printed on the keys with green , press and hold the Chr key and simultaneously press a key with a special character printed in green.

To generate special characters by using certain unmarked keys, for example, "a" and "e", do as follows:

- 1 Press and hold the Chr key and simultaneously press a letter key. The first special character matching the letter key is displayed.
- 2 Continue to hold down the Chr key and press the letter key again. The second special character is shown in place of the first one, and so on, until the first character is shown again.

- 3 Press Shift or the Caps lock key to change the case of the special character.

Shortcuts

Tip: Many shortcuts are also displayed next to menu commands in applications.

There are several shortcuts you can use in the document applications. The shortcuts vary depending on the application used. The following table lists some of the available shortcuts:

Shortcut	Function
Ctrl + <i>a</i> Ctrl + <i>c</i> Ctrl + <i>x</i> Ctrl + <i>v</i> Ctrl + <i>z</i>	Selects all Copies selected text Cuts selected text Pastes selected text Undoes (the last action)
Ctrl + <i>b</i> Ctrl + <i>i</i> Ctrl + <i>u</i>	Applies bold Applies italics Applies underlining
Ctrl + <i>t</i> Ctrl + <i>d</i>	Full screen mode (if available) Deletes files, messages, shortcuts and other items.
Ctrl + <i>p</i>	Print or Properties
Ctrl + <i>n</i> Ctrl + <i>o</i> Ctrl + <i>e</i>	Creates a new file Open Close
Ctrl + <i>s</i> Ctrl + Shift + <i>s</i>	Save Save as

Shortcut	Function
Chr + left/right arrow (on Arrows key)	Moves the cursor to the beginning or end of the line
Chr + up/down arrow (on Arrows key)	Moves up or down a page
Chr + Ctrl + up/down arrow (on Arrows key)	Moves to start or end of document
Shift + Ctrl + left/right arrow (on Arrows key)	Selects the previous or next word
Shift + right/left/up/down arrow (on Arrows key)	Selects one text character or line
Shift + Chr + up/down arrow (on Arrows key)	Selects text, page by page, inside a document

Save files

When you close a new file for the first time, or want to save it, you will be asked to enter a name for the file and to identify a folder in which it should be saved.

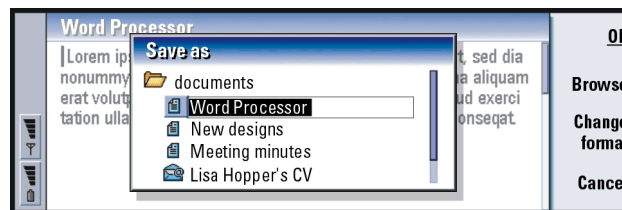


Figure 19

The following commands become available in the dialog:

OK - Confirms the name of the document and saves the document.

Browse - Opens a dialog in which you can browse for a location where you save your file.

Change format - Opens a list of formats. You can now change the format of the document being saved.

Cancel - No saving is done and the dialog is closed.

● **Note:** If you want to quit the application, but you do not want to save the file, press the Menu key and select *File> Discard changes*, then close the file.

Send documents

In addition to sending messages in the Messaging application, you can also send documents out of the communicator in the applications where the Send function is available on the Menu list.

As a fax - You can send the document as a fax.

As a mail - You can send the document as a mail message.

As a short message - You can send the document as a short message.

Via infrared - You can send the document via infrared.

● **Note:** When you open a document, the document is opened in the appropriate editor or viewer. The commands vary according to the editor/viewer.

Search for text

You can search for text strings in the applications where this function is available on the Menu list.

1 Press the Menu key and select *Edit > Find...* A dialog opens.

- 2 Type the text string in the search field and press **Find**.
- 3 Once a text string match is found, it is highlighted.
To find out if there are more of the same text strings in the document, press **Find next**.
- 4 To refine the search, press **Options**. A dialog opens where you can define options of *Case sensitive* or *Match whole word*.

Replace text

- 1 Press the Menu key, and select *Edit> Find...*
Press **Replace**.
- 2 Type the text string to be replaced in the *Find:* field and the text you want to replace it with in *Replace with:* field.
- 3 For more search and replace options press **Options**. In the Find options dialog you can select a case sensitive search or a search only matching whole words and not parts of a word. You can also choose to replace all occurrences of a text in the document without further confirmation.
- 4 Press **Replace** or **Replace all**.

 **Tip:** **Replace all** is available only if you have selected **Yes** in the **Replace all** dialog.

Check spelling

 **Note:** You can spell check only English text and words.

You can check words and text for spelling in the applications where *Spell check...* is available on the Menu list. To be able to use this function, you first need to install the Spell checker from the CD-ROM found in the sales package of your communicator. For details, see 'Install software from the CD-ROM' on page 81.

 **Tip:** You can select individual words to spell check. Otherwise the whole text is searched and spell checked.

- 1 Press the Menu key and select *Tools > Spell check...* If the Spell checker comes across a word it does not recognize, a dialog opens.
- 2 You can type in the correction in the correction field. Or, move to the *Suggestions* field and press the Tab or Enter keys to open a list of suggestions.
- 3 Select a word from the list of suggestions, then press **Replace** to accept the correction or suggestion.
- 4 If during step 2 you want to add an unrecognized word to the dictionary, press **Add**.

Print

You can print various items, such as documents, pictures, faxes, mails, and short messages.

Refer to the user guide of the printer for detailed safety instructions on the printing device.

To view or modify the page setup, press the Menu key and select *File > Printing > Page setup...*

To preview the document before printing it, press the Menu key and select *File > Printing > Print preview*

To print a document or a file,

- 1 Press the Menu key and select *File > Printing > Print...* A note appears, showing the print range, connection type, and printer used.
- 2 Press **Print**. A dialog opens. To change the printing options, press **Options**.
- 3 To preview what you are about to print, press **Print preview**. A dialog opens. To define page setup, press **Page setup**.

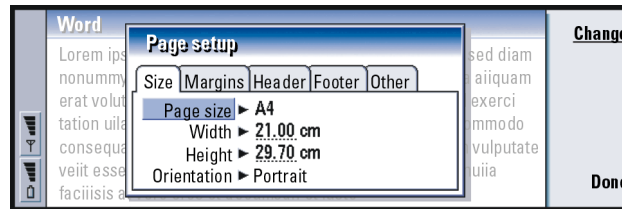


Figure 20

When printing via infrared, make sure that the infrared port of the communicator faces the infrared port of the printer. Keep the infrared connection clear. If the connection is obstructed for too long, for example, if something is moved between the infrared sensors or the communicator is moved, printing is interrupted. For details on infrared connection, see page 82.

Log

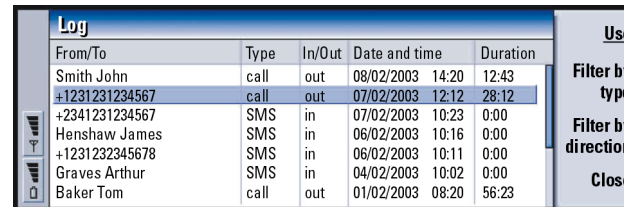
Log contains information about the communication history of your communicator. The log shows all, or certain types of communication events in chronological order.

With log files you can monitor your communications, use the information to create or complete contact cards, or reply directly to the sender in the log.

Tip: The shortcut to open the log is Shift+Ctrl+L.

Tip: To change the categories *Date and time* and *Duration* to *Subject* and *Status*, press < and > on the Arrows key.

Tip: A communication type can have one of the following delivery statuses: *pending*, *delivered*, *failed*, *sent*, *not sent*, and *scheduled*.



From/To	Type	In/Out	Date and time	Duration
Smith John	call	out	08/02/2003 14:20	12:43
+1231231234567	call	out	07/02/2003 12:12	28:12
+2341231234567	SMS	in	07/02/2003 10:23	0:00
Henshaw James	SMS	in	06/02/2003 10:16	0:00
+1231232345678	SMS	in	06/02/2003 10:11	0:00
Graves Arthur	SMS	in	04/02/2003 10:02	0:00
Baker Tom	call	out	01/02/2003 08:20	56:23

Figure 21

Access the log

You can access the log from the Menu of several applications.

Press the Menu key and select *Tools > Log*.

Make use of an individual communication event

- 1 Choose a log event and press **Use**. The command buttons change.
- 2 You can now do the following: send a fax or short message to the contact, call the contact, or add the contact to your Contacts directory. Check the command buttons for available options.

View only certain communication types

- 1 Press **Filter by type** to choose a communication type you want to view.
Press **Filter by direction** to choose whether you want to view communications originated by you or by the remote party.
- 2 Select from the options.
- 3 Press **OK**.

Erase the contents of the log

Log events remain in the log database for only a set number of days after which they are automatically erased to free memory on your communicator. To redefine the number of days, press the Menu key and select *Tools > Log duration...*

- 1 To erase some or all the contents of the log, press the Menu key and select *File > Clear log...*
- 2 Type in the date. All log events with an earlier date will be removed from the log.
- 3 Press **Clear**.

Install software from the CD-ROM

The applications and files on the communicator's CD-ROM are ready to be installed or moved to the communicator. Proceed with installation as follows:

- 1 Ensure that you have installed PC Suite on your computer. You can find this program on the CD-ROM in the sales package.
- 2 Insert the CD-ROM into the CD-ROM drive of your computer.
- 3 Either: Connect your communicator to your computer using the adapter cable supplied in the sales package.
Or: Prepare the communicator and the computer for an infrared connection. For more information, see 'Activate the infrared connection' on page 82.
- 4 If the CD-ROM user interface does not open automatically, double-click the file 'Nokia9290.exe' in the CD-ROM file structure.
- 5 Select a program you want to install from the CD-ROM user interface and click 'Install'.

 **Tip:** For more information about PC Suite, see the PC Suite Guide on the CD-ROM.

■ **Tip:** See the Add on Applications Guide for information on other software available for your communicator.

■ **Tip:** To activate the infrared, you can also press the Menu key and select *Tools > Receive via infrared*.

● **Note:** Remember to install applications in the same language as your communicator.

Use the memory card in the communicator to gain more space for the different applications and files on the CD-ROM.

● **Note:** For information on the installable applications, see the Software on CD-ROM Guide on the CD-ROM.

Activate the infrared connection

- 1 Make sure that the infrared port of the communicator faces the infrared port of the other device.
- 2 To activate the infrared connection, press Chr +  (the key with the infrared symbol; this key is on the right-hand side of the keyboard, next to the Enter key).
- 3 To end the infrared connection, press Chr +  again.

● **Note:** Your communicator is a Class 1 Laser product.

4. Phone

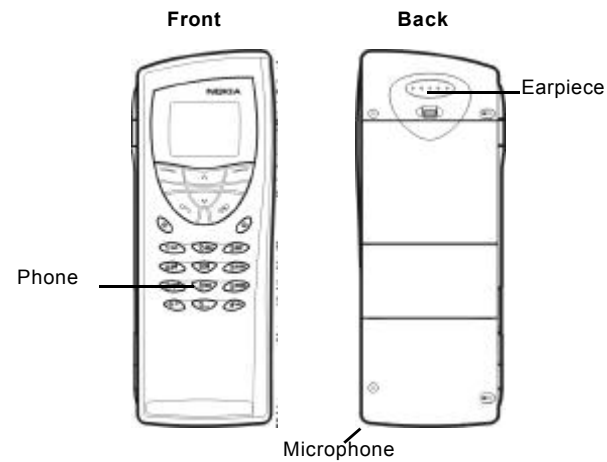


Figure 22

With the cover phone you can make, receive, and manage calls, send and receive short messages, search for phone numbers, change profiles and define many settings. For more complicated tasks like sending long touch tone sequences or modifying phone settings, use the Telephone application. See the Telephone chapter, starting on page 111.

Tip: To call your voice mailbox, press and hold .

Tip: If you have subscribed to two phone lines, you can switch between them by pressing and holding .

Selection keys

When operating the phone, press keys one at a time. The phone keypad is not functional when the cover of the communicator is open.



Switches the phone on and off.



Switches between profiles. See 'Profile settings' on page 120.



Scroll through menus, submenus or settings. If there are no active calls, you can use the scroll keys to browse through the phone book. When a call is active, you can adjust the volume level by pressing the scroll keys.



Dials a phone number and answers a call. Sends the ongoing call to hold if pressed during a call. In the standby mode shows the list of the most recently dialed numbers.



Ends any active call, cancels a dialed call, or clears the display.

0...9

The number and alphabet keys.



Used for creating functions.



The function of these two selection keys depends on the text shown on the bottom of the display. See Figure 23.



Note: Hold the phone as you would any other mobile phone with the antenna pointed up and over your shoulder. Do not touch the antenna unnecessarily when the phone is switched on. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.



IMPORTANT! Do not switch on the phone when the use of wireless phones is prohibited, or when it may cause interference or danger.

Use the selection keys

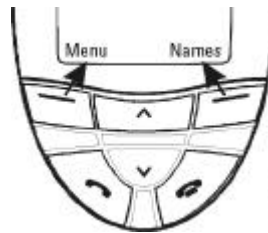


Figure 23

Selection keys are the keys located right below the right and left corners of the cover display. Commands on the display vary according to the situation and previous selections.

Often you must confirm the selection by pressing **OK**. If available, you can use **Back** command to return to the previous menu level without making any changes.

Example: Pressing the selection key under the text **Menu** gains access to the menu functions.

Tip: A press of the  key will return the display to stand-by mode.

Display indicators

The display indicators inform you about the current operation of the phone. The indicators described below are shown when the phone is ready for use, with no characters entered on the display.

SYSTEM NAME or LOGO - The wireless system you are currently using.

 and bar - The current signal strength at your location. The more bars visible, the stronger the signal.

 and bar – Battery charge level. The more bars visible, the more charge there is in the battery.

-  – The phone keypad is locked or the lock code is active.
-  – The phone will not ring to notify you of an incoming call.
-  – You have received one or several new voice messages.
-  – You have received one or several new short messages.
-  – You have received one or several new faxes.
-  – Infrared transmission is active.
-  – Call forwarding is active.

Make a call

To make and receive calls,

- the phone must be switched on,
- the communicator must have a valid SIM card fitted, and
- you must be located in a service area of the wireless system.

Tip: When a call is active, you can use the  and  keys to lower or raise the volume level of the earpiece.

- 1 Key in the area code and the phone number of the person you wish to call. If you make a mistake, you can remove the digits one at a time by pressing **Clear** repeatedly. To clear the whole display, press and hold **Clear**.
- 2 Press  to dial the phone number.
- 3 To end the call, press .

Note: The microphone and earpiece are on the rear of the device.

International calls

When making international calls, start by pressing  twice quickly. The international call character '+' appears on the display, which informs the system center to select the international dialing prefix.

After this you can enter the country or region code, area code and phone number.

 **Note:** Calls described here as international may in some cases be made between regions of the same nation.

Search for phone numbers

You can retrieve phone numbers from memory by the name with which the phone number was stored. For more information, see 'Call a number in the telephone directory' on page 112.

- 1 Press **Names**.
- 2 Scroll to *Search* and press **Select**.
- 3 Key in the name of the person whom you want to call, or the first letter(s) of the name.
- 4 Press **Search**. The name closest to the keyed characters will appear.
- 5 If the name found was not the one you searched for, scroll through the names with  and  until you reach the correct one.
- 6 Press **Details** to view the details of the highlighted name, or press  to call the person. If the person has several numbers, scroll the selection frame onto the one you want and press .

 **Tip:** To choose which memory to use, press **Names**, scroll to *Options* and press **Select** twice. Scroll to choose *Device*, *SIM card*, or a contacts database you have created and press **Select**.

Example: Press **2** if the 1-touch dial location for the phone number is 2.

 **Tip:** Pressing and holding **1**  dials your voice mailbox number.

1-touch dialing

1-touch dialing is a handy way to call frequently-used phone numbers. You must enable 1-touch dialing, see 'Call settings (3-1)' on page 100. You can define up to eight 1-touch dial numbers in the communicator memory. For information on how to set 1-touch dials, see page 123.

- 1 Key in the number of the 1-touch dial location where you have stored the phone number.
- 2 Press . The phone will display the phone number briefly, and then dial it.

1-touch dialing is not possible during a call.

Call service numbers

Your service provider may have stored service numbers on your SIM card. For more information, see 'Call a number in the telephone directory' on page 112.

- 1 Press **Names**.
- 2 Scroll to *Service Nos.* and press **Select**.
- 3 Scroll to the service number and press  to call the number.

Send touch tones

If you need to send long touch tone sequences, it is more convenient to send them via the communicator interface, see 'Send touch tones during a call' on page 119.

 **Tip:** For an explanation of touch tones, see the Glossary on page 339.

- 1 Make the call to the desired phone number.
- 2 Key in the digits you want to send as touch tones. The digits are sent one by one to the system.

Answer a call

When you receive a call, the phone gives a ringing tone and the text *Call* flashes on the display. If silent-profile is active, only the keypad and display light will flash. If the caller can be identified, the caller's name or phone number, and the text *Calling*, will be displayed.

- 1 To answer the call, press .
If you do not want to answer the call, press . The caller will hear the alerting tone change to a busy tone.
To mute the ringing tone of an incoming call, press **Mute**.
- 2 To end the call, press .

Manage calls

There are a number of functions you can use during a call. Many of the in-call options are system services.

To access the functions, press **Options** during a call. Some or all of the following in-call options may become available:

Answer - Allows you to answer an incoming call.

Decline - Allows you to decline an incoming call.

Hold/Activate - *Hold* allows you to put the current call on hold, so that another call can be made. To activate the original call again, select *Activate*.

New call - Puts the active call on hold and dials a new phone number.

Tip: To change your ringing tone, see 'Attach a ringing tone' on page 140.

Tip: You can answer the call even while using the search or menu functions.

Tip: If the *Forward if busy* is activated to forward the calls, for example, to your voice mailbox, declining an incoming call will also forward the call. See 'Forward voice calls' on page 125.

Send touch tones - Transmits touch tones. See 'To send touch tones during a call' on page 75.

End active call - Ends the active call.

End all calls - Ends both the active and held call.

Contacts - Opens the phone book.

Menu - Opens the Menu.

Mute/Unmute - Switches the microphone of the communicator off or on. If the communicator is connected to a handsfree car kit, *Mute* also turns off the microphone of the car kit.

Swap - Allows you to alternate between two calls, an active and a held call.

Transfer - Enables you to connect two voice calls together and disconnect yourself from both calls. See 'Transfer calls' on page 118.

Conference - If one call is active and another call is on hold, this option merges them into a conference call.

Private - During a conference call, *Private* allows you to converse privately with a selected participant.

Keypad lock

The keypad lock prevents the keypad keys being pressed accidentally.

When the keypad is locked, you can answer calls normally by pressing . During a voice call, the keypad is unlocked and the communicator can be operated in the usual way. After the call, the keypad is automatically locked again.

The keypad will be unlocked automatically when the communicator is connected to a car kit. When the communicator is removed from the car kit, without being switched off, the keypad will be locked automatically again.

Lock the keypad

Press **Menu** and then the  key within 3 seconds.

● **Note:** While the keypad is locked, the  icon and the **Unlock** command are displayed.

Unlock

Press **Unlock** and then the  key within 3 seconds.

● **Note:** When the keypad is locked, calls may be possible to the emergency number preprogramed into your communicator (for example, 911 or other official emergency number).

Change profiles

You can use the Profiles key  to adjust phone tones for the various operating environments of the communicator. One profile is always in use.

For more detailed information on the various profiles, how to adjust the settings and so on, see 'Profile settings' on page 120.

- 1 Press the  key on the keypad.
- 2 Press the key again until the selection frame is on the desired profile.
- 3 To select the profile, press and hold .

Example: If you use the Meeting profile in a meeting the phone rings only once and does not disturb others so much.

■ **Tip:** You can also use the scroll key and **OK** to select a profile.

View help

Most menu functions are provided with a help text, which gives a brief description of the displayed function.

- 1 Scroll to the menu function about which you want help.
- 2 Wait for a few seconds. The first page of the help text will appear. The text scrolls automatically. If you want to scroll it manually, press the scroll keys or **More**.
- 3 To exit help, press **Back**.

Using the menus

Tip: You can access the menu functions even during a call.

The phone offers a set of menu functions that allow you to tailor the phone for your particular use. The menus and submenus can be accessed by scrolling the menu or using the appropriate shortcuts.

Scrolling the menus

- 1 Press **Menu**.
- 2 Press either  or  to scroll the list of menus until you reach the desired menu.
- 3 Press **Select** to access the menu. If the menu contains submenus, reach the one you want with either  or  and press **Select**.
- 4 To return to the previous menu level, press **Back**.
To exit the menu without changing any settings and to return to the stand-by mode, press .

Using menu shortcuts

All the menus, submenus and settings are numbered. This number is shown in the upper right corner of the display.

- 1 Press **Menu**.
- 2 Key in the index number of the menu you wish to access.

Example: To set the Anykey answer on, first press **Menu** and then press the numbers **3, 1, 1, and 1** in sequence.

Menu structure

The following menu table lists the names of the main menus and their submenus. Some menus are subject to the availability of the service in your area. Third-level menus are not shown.

Menu	Function	Submenus
MENU 1	MESSAGES	1 Write message, 2 Inbox, 3 Drafts, 4 Sent, 5 Cell broadcast, 6 Service command editor, 7 Voice messages
MENU 2	CALL LOG	1 Missed calls, 2 Received calls, 3 Dialed numbers, 4 Clear recent call lists, 5 Call duration, 6 Call costs
MENU 3	SETTINGS	1 Call settings, 2 Phone settings, 3 Security settings, 4 Restore factory settings
MENU 4	FORWARDING	1 Forward all voice calls, 2 Forward if busy, 3 Forward if not answered, 4 Forward if out of reach, 5 Forward if not available, 6 Forward all fax calls, 7 Forward all data calls, 8 Cancel all forwards
MENU 5	INFRARED	
MENU 6	SIM SERVICES	Only available, if supported by your SIM card.

Tip: To change the tone of an incoming SMS message, see 'Profile settings' on page 120.

Tip: You can call the phone number while viewing the message by pressing , pressing **Select**, and pressing  again.

Messages (Menu 1)

The Short Message Service (SMS) is a system service which enables you to receive and send short messages. Contact your service provider for details.

Write a message (1-1)

In this menu you can write and send a short message.

Inbox (1-2)

When you receive a short message or picture message, the text *%N messages received* and the indicator  will appear on the display and a tone will sound, unless the communicator is set to a silent profile. You cannot view received picture messages with the Nokia 9290 Communicator.

A note is also shown when you receive faxes or mail. To read received faxes or mail, you must use the respective applications of the communicator interface.

- 1 Press **Read** twice to view the message, or press **Exit** to view it later.
If you view a message later, press **Menu > 1 > 2**, scroll to the desired message and press **Read** to view the message.
- 2 While viewing the message, press **Options** to scroll through the list of options and press **Select** at the highlighted option to select it. The available options are:
Delete - Erases the selected message from the memory.
Reply - Opens the editor for a reply. Key in the reply and press **Options > Send**
Forward - Asks for the number where the message should be forwarded. Enter the number and press **OK** to forward the message.

Edit- Opens the current message in the editor where you can modify the message.

Use number - Copies the phone number from the message and moves it onto the phone display. You can now call the number with .

Details- Shows the sender's name and number, the date and time the message was sent, and the number of the message center.

Drafts (1-3)

In this menu you can view, modify, and send your draft short messages.

Sent (1-4)

In this menu you can view and modify the short messages you have sent.

Cell broadcast (1-5)

This system service allows you to receive SMS messages on topics that you have predefined on the communicator interface. See 'Cell broadcast' on page 275.

For available topics and relevant topic numbers, contact your service provider.

On - Sets the information message reception on.

Off - Turns the information message reception off.

Service command editor (1-6)

In this submenu, you can send service requests, such as activation commands for system services, to your service provider. For more information, contact your service provider.

 **Tip:** These requests are also known as USSD commands.

Tip: To call your voice mailbox quickly, press and hold **100**.

Voice messages (1-7)

Listen to voice messages (1-7-1)

When you enter this submenu, the phone automatically calls your voice mailbox at the phone number stored in menu 1-7-2. If required, key in the access code for your mailbox or answering machine when the connection has been made.

If the voice mailbox number has not been saved before, the phone asks for you to save it first.

Note that the voice mailbox is a system service and you may need to subscribe to it first.

Voice mailbox number (1-7-2)

In this submenu, you can store and edit your voice mailbox number. A voice mailbox can be a system service or your personal answering machine. For more information and for the voice mailbox number, contact your service provider.

Call log (Menu 2)

Missed calls (2-1)

Lists calls that you have missed.

Note: The communicator only registers missed calls when the phone is switched on and within system coverage.

Tip: *Received calls* and *Missed calls* functions are system services which work only in systems that allow you to view the caller's phone number.

Received calls (2-2)

Lists calls that you have received.

Dialed numbers (2-3)

Lists calls that you have dialed.

Clear recent call lists (2-4)

Select which calls you want to erase. The options are *All/Missed/Dialed/Received*.

● **IMPORTANT:** The phone numbers are erased without warning. You cannot undo the operation.

Call duration (2-5)

Shows the duration of your outgoing and incoming calls, and allows you to reset the timers.

Last call duration (2-5-1)

Shows the duration of the last outgoing or incoming call in hours, minutes or seconds, for example, 0:02:15.

All calls' duration (2-5-2)

Shows the total duration of all calls made and received with any SIM card that you have used with the communicator.

Received calls' duration (2-5-3)

Shows the total duration of calls received with any SIM card that you have used with the communicator.

Dialed calls' duration (2-5-4)

Shows the total duration of calls made with any SIM card that you have used with the communicator.

Clear timers (2-5-5)

Asks for the lock code and then resets all timers. You cannot undo the reset operation.

● **Note:** The actual time invoiced for calls and services by your service provider may vary, depending upon system features, rounding-off for billing, taxes and so on.

Call costs (2-6)

This system service allows you to check various call costs. The costs are shown in charging units or units of currency that you have set in Menu 2-6-3-2. The call cost is shown for each SIM card separately. For these settings you need the PIN2 code, the PIN code, or no code at all, depending on your service provider. Contact your service provider for more information.

Last call cost/units (2-6-1) & All calls' cost/units (2-6-2)

Last call cost/units (2-6-1) shows the cost or units of the last, or current call. All calls' cost/units (2-6-2) shows the total cost or units of all calls made with the current SIM card.

Whichever menu you choose, press **Options** to access the following three submenus:

Clear cost counters (2-6-3-1)

Resets all cost counters. You cannot undo the reset operation.

Show cost / Show in units (2-6-3-2)

You may select whether the call costs and call cost limits will be displayed in currency or charging units. Contact your system service provider for the prices of charging units.

The display shows the option that is currently not selected. To select the option shown on the display, press **Select**. If you selected *Show cost*, key in the charging unit price. Use ***** or **#** to insert a decimal point. Next, enter the currency name.

Call cost limit (2-6-3-3)

This function allows you to limit the total costs of outgoing calls to a specified number of charging units or units of currency that you have set in Menu 2-6-3-2.

To turn the limit on, select *On*. Key in the cost limit in charging units or currency units. If you define the limit in currency units, you can press ***** or **#** to insert a decimal point.

After the limit has been turned on, the number of remaining units is shown on the display when in stand-by mode. When all units have been used, no calls can be made.

To turn the limit off, select *Off*.

- **Note:** In some systems, calls to the emergency number programed into your communicator (for example, 911 or other official emergency number) may be made even if there are no charging units left.
- **Note:** The actual time invoiced for calls and services by your service provider may vary, depending upon system features, rounding-off for billing, taxes and so on.

Settings (Menu 3)

Call settings (3-1)

Anykey answer (3-1-1)

When selected, you can answer an incoming call by pressing any key on the keypad, except , , , **Mute** selection key, or the blank selection key.

Automatic redial (3-1-2)

When this function is selected and you call a number that is busy or does not answer, the phone will attempt to call the number until the call is connected. The maximum number of redials is 10.

Press  to end the call attempts.

1-touch dialing (3-1-3)

When selected, you can dial phone numbers stored in the 1-touch dial locations by simply pressing and holding the assigned 1-touch dial key. See '1-touch dials' on page 123 for more information.

Call waiting (3-1-4)

Call waiting is a system service. Contact your operator for subscription. For more information see 'Answer a waiting call' on page 118.

Choose *Activate* to enable call waiting, *Cancel* to disable call waiting, or *Check status* to show whether call waiting is active and for which call types.

Send caller ID when calling (3-1-5)

This system service allows you to set your phone number either to be displayed or to be hidden from the person you are calling. *Set by system* resets the phone to the default setting, *On* or *Off*, that you have agreed upon with your service provider.

Summary after call (3-1-6)

If you set this function to *On*, the phone will briefly display the duration and cost (system service) after each call.

Line for outgoing calls (3-1-7)

If your system supports this service, you can have two phone lines in your communicator. You can select which line you want to use for making calls. For more information, see 'Line selection page' on page 132.

Phone settings (3-2)

Clock (3-2-1)

You can select whether the time is shown on the display.

Cell info display (3-2-2)

When this function is selected, the phone will indicate when it is used in a system cell based on Micro-Cellular Network technology. MCN technology increases the capacity of wireless networks in urban areas. The setting will remain in effect even if the SIM card is changed or the phone is switched off.

Welcome note (3-2-3)

You can write a message of up to 44 characters which appears on the display when you switch on the phone.

System selection (3-2-4)

The system to which you are connected can be selected either automatically or manually.

If you select *Automatic*, the phone automatically selects one of the wireless systems available in your area. Outside your home system service area, the communicator will select one of the systems that has a roaming agreement with your home system.

If you select *Manual*, the phone will show a list of available systems and you can select the system you wish to use if this network has a roaming agreement with your home system service operator. If no such agreement is in force, the text *No access* will be displayed and you must select another system.

Security settings (3-3)

The purpose of the security system is to prevent unauthorized use or altering of important settings. In most cases, activating or changing the security options requires the appropriate access code. See 'Security' on page 256.

● **Note:** When security features which restrict calls are in use (for example, call restrictions, fixed dialing, or system lock etc.), calls may be possible to certain emergency numbers in some systems (for example, 911 or other official emergency number).

PIN code request (3-3-1)

The options are *On* and *Off*. See 'Security' on page 256.

Call restrictions (3-3-2)

This system service allows you to restrict incoming calls to, and outgoing calls from your phone.

The options are: *Outgoing calls*/*International calls*/*International calls except to home country*/*Incoming calls*/*Incoming calls when roaming*/*Cancel all restrictions*.

■ **Tip:** A restriction password is required for using this function.

Closed user group (3-3-3)

This system service allows you to set the communicator to accept calls to and from a selected group of people. For details on creating a user group and activating this service, contact your system service provider.

Preset - Resets the phone to use a user group the SIM card owner has agreed upon with the system service provider.

On - Uses a particular user group. Calls can be made to or received from the members of the selected group only.

Off - Calls can be made and received in the normal way. You can use this option only if you are entitled to do so.

 **Tip:** You can also press **Menu** and **#** to enter your lock code.

Lock if SIM changed(3-3-4)

You can protect your phone against unauthorized use with the lock code. To do this, you need to select SIM change security. For details, see 'Security' on page 256.

Change of access codes (3-3-5)

In this submenu, you can change the lock code, the PIN code, the PIN2 code and the restriction password. See 'Security' on page 256.

The access codes may only include the digits 0 to 9.

Lock system(3-3-6)

In this submenu, you can lock the communicator. Press **Select** and enter your lock code. The communicator locks immediately. When communicator is locked, you can make emergency calls to predefined numbers using the cover phone. You can also answer incoming calls and make emergency calls using the Telephone application. All other actions are blocked. Even if you remove and replace the battery and switch on the phone, the communicator will remain locked. To unlock the communicator, press **Unlock** and enter the lock code. For more information on locking and other security options, see 'Security' on page 256.

 **IMPORTANT:** The default lock code is **12345**. For security reasons, it is imperative that you change the lock code. Keep the code secret and in a safe place, separate from the communicator. For information on changing the lock code, see section 'Security' on page 256.

Restore factory settings (3-4)

You can reset some of the menu settings to their original values. You need the lock code for this function. This function will not affect stored phone numbers and names, access codes, earpiece volume setting, call timers, cost counters, selected application tones or SMS messages.

Forwarding (Menu 4)

This system service allows you to direct your incoming voice calls to another phone number when you do not want to be disturbed, or when the phone is switched off or outside the system coverage area. For details, see 'Forward voice calls' on page 125.

The options are: *Forward all voice calls/Forward if busy/Forward if not answered/Forward if out of reach/Forward if not available/Forward all fax calls/Forward all data calls/Cancel all forwards.*

Select *Activate* to set the forward setting on if allowed by the system, *Cancel* to set the setting off. Select *Check status* to check whether the forward is activated or not.

If you select *Forward if not answered* or *Forward if not available*, you can also select *Set delay* to choose a delay time before the call is forwarded. The options are *5 sec/10 sec/15 sec/20 sec/25 sec/30 sec.*

Tip: The  icon is shown in the stand-by mode when you have activated the *Forward all voice calls*.

Infrared (Menu 5)

If you want to receive data from another device via infrared, use this function. Make sure that the infrared port of the communicator faces the infrared port of the other device and press **Activate**. For more information, see 'Activate the infrared connection' on page 82.

● **Note:** Your communicator is a Class 1 Laser product.

SIM services (Menu 6)

In addition to the functions available in the phone, your SIM card may provide additional services that you can access in the menu 6. Menu 6 is shown only if it is supported by your SIM card. The name and contents of the menu depend entirely on the services available.

For availability, rates and information on using the SIM services, contact your SIM card vendor, for example your system service provider, service provider or other third-party vendor.

● **Note:** Accessing these services may involve sending a text message (SMS) or making a phone call for which you may be charged.

5. Desk

Desk is an application where you can create and manage links to your favorite documents, applications, or third-party software.

Main view

When you first use Desk, the main view has at least the following links by default: an Internet shortcut to Internet setup, a document named 'Start here!', and a WWW link to the official Nokia Web site.

You cannot select more than one link at a time. You can delete Desk links only in the Desk application.

Tip: Your favorite links can be, for example, certain WWW pages, WAP services, applications, documents, and photo albums.

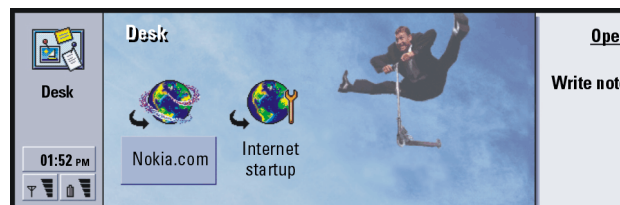


Figure 24

Tip: You can change the order in which a link appears. Select the link, press the Menu key, and select *File > Move*. Using the Arrows key, move the link across the display and press **Place here**.

Tip: To view and change the icon, label or parameters of a link, select the link, press the Menu key, and then select *File > Properties...*

Tip: You can start writing a note quickly in any application or even during a phone call by pressing the Desk application button twice.

Add a link

- 1 Select the program, program group, or other item for which you want to add a shortcut to Desk.
- 2 Press the Menu key and then select *File > Add to Desk*.

Write notes

- 1 Press **Write note**. A simple text editor opens.

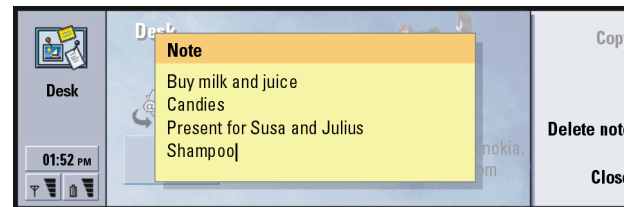


Figure 25

- 2 Write the note.
- 3 Press **Close** to save the document. The note will now appear in the main view of Desk.

Change the background image

You can also customize the background image of the Desk main view.

- 1 Press the Menu key and select *Tools > Settings....* A dialog opens.
- 2 Define the following:
Background image: The options are *Yes/No*.

Image file: Press **Change** to browse for an image. Press **Preview** to view the image.

3 Press **Done**.

● **Note:** The image file you choose as a background image should be scaled to appear equal to or bigger than the screen size. For details, see 'Imaging' on page 271.

Desk 110

6. Telephone

You can use the Telephone application to make and receive phone calls, handsfree calls, or conference calls. You can record and redirect calls, use voice mailboxes, and manage settings and profiles.

Open the Telephone application by pressing the Tel application button on the keyboard.

To make phone calls,

- the phone must be switched on,
- the communicator must have a valid SIM card inserted, and
- you must be located in a service area of the wireless system.

Some of the operations explained here can also be made using the cover of the communicator.

● **Note:** Opening or closing the cover does not affect active phone calls. If you have made a voice call using the Telephone application and you close the cover, you can continue the call with the cover phone.

■ **Tip:** You can also switch to other applications during a phone call.

Tip: To disable the handsfree mode, press the Menu key, select *Settings > Call... > Audio when cover opened* and press **Change** to switch the handsfree mode *Off*.

Tip: To redial the last dialed number you can also press the shortcut keys **Chr+Tel**.

Tip: You can zoom in and out to either make the text more readable or fit more entries on display. Press the Menu key and select *View > Zoom in* or *Zoom out*

Make a call manually

- 1 Type the telephone number in the field at the bottom of the main view.
- 2 Press **Call**. Use the handsfree mode to speak and listen to the communicator from a short distance when the cover is opened, or close the cover and continue with the cover phone.

Call a number in the telephone directory

When you have no active voice calls, the Telephone application main view shows the Telephone directory. The default directory is in the communicator memory. From the top of the telephone list, you can select directories contained in the SIM card and - if inserted - directories contained in a memory card. Contact cards that do not contain any phone numbers appear dimmed.

- 1 Select a contact in the directory either by scrolling or by using the search field.
- 2 Press **Call**. If the contact has more than one phone number, a list opens, listing all the contact's phone numbers. Choose a number from the list and press **Call**.

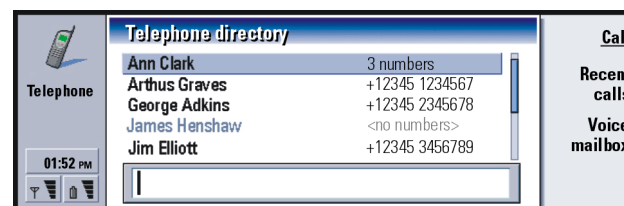


Figure 26

Call a number in a recent calls list

- 1 In the main view, press **Recent calls**. The *Dialed calls* dialog opens. If you have new missed calls, the *Missed calls* dialog opens.
- 2 To see calls from one of the other lists, select a command button on the right of the display. For example, to see a list of received calls, press **Received calls**.
- 3 Select a number from the list and press **Call**. Now you can either leave the cover open to use the handsfree option or close the cover and continue the call normally.

Tip: A shortcut to open the *Missed calls* view is Ctrl + Tel.

Tip: You can create a new contact card by using a telephone number listed in **Recent calls**. In the main view, press **Recent calls**. Select a call, press the Menu key, and *Edit > Add to contacts*.

Tip: To adjust the volume of the speaker during an active call, use the Arrows key: pressing > increases the volume, pressing < decreases the volume.

Answer a call



Figure 27

Tip: The caller's name appears in the note if the telephone number is sent with the call, and if the caller's number is listed in your Contacts directory.

- 1 When you receive a call and the communicator cover is open, a note about the incoming call appears. To answer the call, press **Answer** or close the device cover and answer the call via the cover phone.
 - 2 If you do not want to take the call, press **Decline**. To mute the ringing tone, press **Mute tone**.
- **Note:** You cannot have two active calls at the same time unless you are in a conference call. A current call is automatically put on hold when you answer a new incoming call. For information about conference calls, see 'Make conference calls' on page 116.

Call and create a voice mailbox

Voice mailboxes work just like an answering machine. You can use them to store incoming messages of missed calls. Many service providers furnish a voice mailbox service with the SIM card. If your SIM voice mailbox does not have a number, you can type it yourself. Note that you are still required to contact your service provider for a phone number to use with this voice mailbox.

Tip: Another way to call your voice mailbox is to press and hold the **100** key on the front cover of the phone.

To call your voice mailbox, in the main view of the Telephone directory, press **Voice mailbox**. See Figure 26. If you have more than one voice mailbox, a dialog prompts you to choose a mailbox from a list.

You can also create additional voice mailboxes as follows:

- 1 Contact your service provider for a number to use with an additional voice mailbox.
- 2 Press the Menu key and select *Settings > Voice mailboxes...*
- 3 When the *Voice mailboxes* dialog appears, press **Add**. Type a name and number.

Record a call

You can record the conversation during a call. Once a call is in progress, press the Menu key and select *Call> Record* to open the Recorder application. For more information on the Recorder application, see page 270.

● **Note:** Obey all local laws governing recording of calls.

Make a new call during a call

You can have an active call and a call on hold at the same time. You can switch between the two calls. This situation applies whether you made or received either of the calls.

The display can show a maximum of three calls, although you can have only two calls connected at the same time. See Figure 28. To answer the *WAITING* call you must first end either the *ON HOLD* or the *ACTIVE* call.

- 1 If you already have an active call and a call on hold, drop one of the calls or merge them into a conference call.
- 2 Press **New call** and make the new call. The previous call will be put on hold.
- 3 To switch between calls, use the Arrows key. The active call is framed with a dark line. The command buttons change according to the status of the selected call. For example, a call on hold can be changed to an active call by highlighting it with the Arrows key and then pressing **Activate**.



Figure 28

- 4 To end a call, select the call you want to end with the Arrows key and press **End call**.

Make conference calls

The conference call is a system service. Contact your service provider to check if this service is available. In a conference call, you and up to five persons can hear each other simultaneously. The display shows a conference call as a single call.

- 1 Make a call.
- 2 Once the called person has answered, make a call to a second person by pressing **New call**. The first call is put on hold.
- 3 Wait until the second person answers the call.
- 4 To place both persons into a conference call, press **Conference call**. The display shows a single conference call. Press **Conference commands** to list the two participants of the conference call.

- 5 To include another person, press **New call**. The conference call is put on hold. When the person answers the call, press **Conference call**. This new person is included in the conference call.
- 6 To include further persons, repeat step 5.

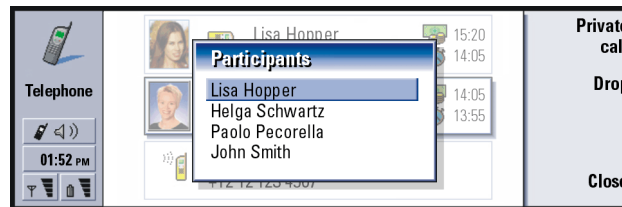


Figure 29

Tip: You can close the cover and continue the call via the cover phone after you have included all participants in the conference call.

Remove a conference call participant

- 1 Press **Conference commands**.
- 2 Select the caller from the list of participants and press **Drop**. See Figure 29.

Talk privately with one of the conference call participants

- 1 Press **Conference commands**.
- 2 Select a participant from the list and press **Private call**. The call is now split into two: the conference call is on hold and the one-to-one call is active.
- 3 Once you have finished the private conversation, you can return to the conference call by pressing **Conference call**.

 **Tip:** To view log files of all calls, press the Menu key and select *Tools > Log*. The log shows all calls, both incoming and outgoing, voice and data.

Transfer calls

Call transfer is a system service where you connect two calls together and disconnect yourself from both calls. Contact your service provider to check if this service is available.

When you have one call on hold, and another call active or an outgoing call alerting, press the Menu key and select *Call > Transfer* to connect the calls together.

● **Note:** You may be charged for some of the cost of the transferred call; contact your service provider for details.

● **Note:** You can only transfer voice calls. Fax, data, or conference calls cannot be transferred.

Answer a waiting call

To know that you have a call waiting, and to be able to answer it, you must first subscribe to the call waiting system service. Call waiting is selected in system services. For more information, see page 124.

- 1 When you receive a new call while you already have an active call, you hear a sound and see a note informing you of a new incoming call.
- 2 Press **Answer**. The active call is put on hold.

Send touch tones during a call

Dual tone multi-frequency tone system is used by all touch-tone telephones. 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, etc.

To send touch tones during a call, you have two methods:

- Type the digits with the communicator keyboard. No menu or command button selection is needed before starting to type the digits. Each keystroke generates a touch tone which is transmitted while the call is active.
- Alternatively,
 - 1 Press **Send tone**. The touch tones sequences you have stored in the contact card of the person you are talking with are shown. For information on how to store touch tones sequences, see page 142.
 - 2 Select a touch tones sequence. You can edit the sequence. If there are no stored sequences, you can type a new touch tones sequence into the input field.
 - 3 Press **Send tone**.

● **Note:** You can send touch tones during a conference call by typing the digits with the communicator keyboard, but you cannot access stored touch tone sequences.

■ **Tip:** Besides the numbers **0 – 9**, you can also use the characters **p, w, *, and #** when sending touch tones. For information on these characters, see 'To store touch tones' on page 99.

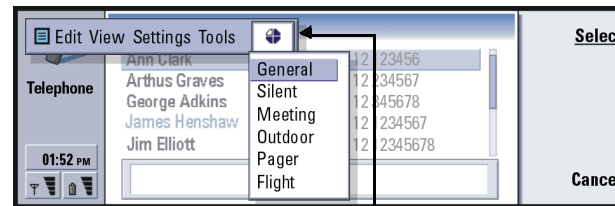
Telephone Settings

In the Telephone main view, press the Menu key and select *Settings* to select one of the following settings.

Profile settings

The profiles are used for grouping the settings of different operating environments of the communicator. In the settings you can modify the profile features. One profile is always in use.

To change the profile in use, press the Menu key. Use the Arrows key to select the Profiles icon at the right-hand end of the menu bar and a new profile from the menu list.



Profiles icon

Figure 30

To select and modify a profile, press the Menu key and select *Settings > Profiles...*

The profiles provided with your communicator are:

Normal - The default profile of the communicator.

Silent - You can set this profile on when you want all the alert tones to remain silent (except Clock and Calendar alarms - see 'Note' on page 121).

Meeting - You can specify how the communicator operates when you are in a meeting, such as setting the volume of the tones low.

Outdoor - You can specify how the communicator operates when you are outdoors.

Pager - You can set this profile on when you want the communicator to act as a pager. The default settings are that there is no ringing tone and that you get an alert tone for received short messages.

Flight - Sets the Flight profile on. For more information, see 'Flight profile' on page 133.

● **Note:** If you have turned on the Clock alarm or an alarm for timed entry in Calendar, it remains on in all profiles, including Silent.

Create a new profile

- 1 To create a new profile, press the Menu key, select *Settings > Profiles..*, and press **New**. The current values of the **Normal profile** are copied to the new profile.
- 2 To modify the settings of any of the profiles, highlight a profile name and press **Edit**. A dialog with four pages opens, as shown in Figure 31. For each of the pages, define the following:

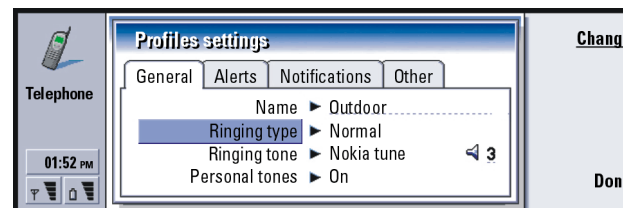


Figure 31

Normal page

Name: Type the name of the profile. Some profiles cannot be renamed.

Ringling type: Choose the ringling type for the ringling tone. The options are *Normal/Ascending/Ring once*.

Ringling tone: Define the sound for the incoming call. Press **Change** to choose from sound files provided with the communicator or to browse for other sound files, if available. To record a tone, see page 270.

Ringling tone, line 1: and *Ringling tone, line 2:* Define the sound for incoming calls on two alternate lines, if available. Press **Change** to choose from sound files that have been provided with the communicator or to browse for other sound files, if available.

Personal tones: Define whether the personal ringling tone of callers are used. The options are *On/Off*. For information about attaching a ringling tone to a contact card, see 'Attach a ringling tone' on page 140.

Alerts page

Clock alarm, Calendar alarm, Received SMS, and Received fax: Choose a specific sound for each of these situations to alert you. Highlight an option, then press **Change** to choose from sound files provided with the communicator or browse for other sound files. To adjust the volume of an alarm, press **Volume**.

Notifications page

Keyboard tone: Adjusts the keyboard sound. The options are *Off/Quiet/Loud*.

Phone keypad tone: Adjusts the keypad sound. The options are *Off/ Quiet/Loud*.

Notification tones: Switches the notification tones between *On/Off*. Notification tones are tones made by the communicator alerting you to an error (such as an incorrect key press) or to a situation (such as a low battery).

Other page

Play ringing tone for: Allows you to choose which incoming calls will make a ringing sound. The options are *All calls*/*VIP group only*/*None*. If you choose *VIP group only*, only the calls coming from someone defined as a VIP will ring; see page 150 in the Contacts chapter. All other calls alert on the display with a message, but will not ring.

1-touch dials

1-touch dialing is a quick way to call frequently used numbers. You can assign 1-touch dials to eight phone numbers. An example is shown in Figure 32.

 **Tip:** See also '1-touch dialing' on page 88.

- 1 Press the Menu key and select *Settings > 1-touch dials...*
- 2 To assign a number to a 1-touch dial location or to change an existing number, press either **Add number** or **Change number**. You see a list of contacts from the contacts database in your communicator's internal memory.
- 3 Highlight a contact card and press **Select**. When a contact card without phone number is highlighted, the **Select** command is dimmed.

Location number 1 is reserved for calling your default voice mailbox; see page 127 for more information. You cannot change its value. For more information on voice mailboxes, see page 114.

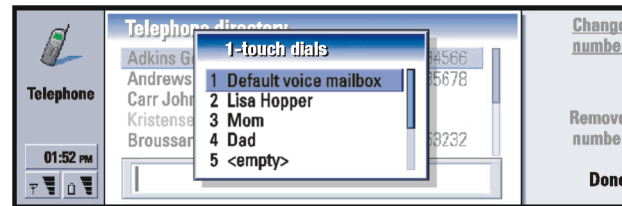


Figure 32

System services settings

● **Note:** System services may not be provided by all operators. If services are provided, you may have to subscribe to them.

■ **Tip:** To change voice call forwarding or restriction settings, the phone must be switched on.

Information about the status of these services is stored in the system. Therefore, the current settings are not shown until you request the information from the system as follows:

- 1 Press the Menu key and select *Settings > System services*
- 2 For example, to check the setting of *Forward if busy*, select *Call forwarding...*, highlight it with the Arrows key, then press **Check status**. While the communicator is making a request to the system, a query note is shown on the display.
- 3 After a successful request, the new status now appears in the settings list.

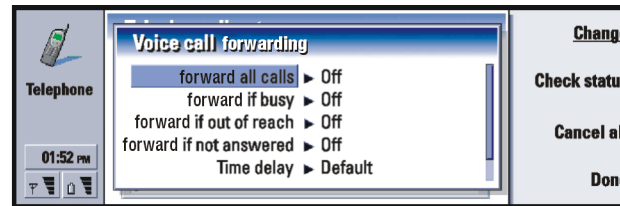


Figure 33

Forward voice calls

Voice call forwarding allows you to direct your incoming voice calls to another phone number. This is also known as call forwarding.

- 1 Press the Menu key and select *Settings > System services > Call forwarding....* A dialog opens.
- 2 Choose forward options:

Forward all calls— All incoming calls are forwarded.

Forward if busy— Incoming calls are forwarded when you are engaged in another call.

Forward if out of reach— Incoming calls are forwarded when the phone is switched off or outside the system service area.

Forward if not answered— Incoming calls are forwarded if you do not answer them within a certain time period.

Time delay— Applies to the option *Forward if not answered*. *Time delay* allows you to choose the time period after which the call is forwarded. You can set the delay to *Default*/*5 seconds*/*10 seconds*/*15 seconds*/*20 seconds*/*25 seconds*/*30 seconds*

Forward if not available— In a single action, this option turns on forwarding of *Forward if busy*/*Forward if out of reach*/*Forward if not answered*

- 3 Press **Change**, and select one of the following options:

To:— Type the number to which you want to forward the calls.

Default voice mailbox — Calls are forwarded to your voice mailbox. If you have more than one mailbox, you must choose one from a list shown to you. See page 127 for more information.

Off— Turn off the forward.

Restrict voice calls

To restrict voice calls you use the voice call restriction system service. To use call restrictions or change the restriction settings you need a restriction password, which you can obtain from the service provider.

- 1 Press the Menu key and select *Settings > System services > Call restrictions...* The *Voice call restrictions* dialog opens.

- 2 Choose one of the available options:

Outgoing calls — Calls cannot be made.

Incoming calls — Calls cannot be received.

International calls — Calls cannot be made to other countries or regions.

Incoming calls when roaming — Calls cannot be received when you are outside your home region or country.

International except to home country — If you have enabled international roaming with your service provider, you cannot make international calls abroad, except to your home country.

- Note: Calls described here as international may in some cases be made between regions of the same nation.

If you subscribe to the alternate line system service, voice call restriction applies only to the *Selected line*.

● **Note:** If voice call restriction is in use, calls may still be possible to certain emergency numbers, in some systems.

To cancel all call forwards or restrictions, press **Cancel all**.

Other system services

- 1 Press the Menu key and select *Settings > System services > Other services...*
- 2 Other system service settings contains the following options:
 - System selection* — Allows you to change the way a system is selected and also register to another system. You can set the system selection to either *Automatic* or *Manual*. In automatic system selection, the communicator selects the most appropriate system. In manual system selection, the communicator searches for available systems and presents you with a list of systems found; you can then select which system to use.
 - Call waiting*— Press **Change** to choose *On* or *Off*. For a brief description of call waiting, see 'Answer a waiting call' on page 118.
 - Send caller own ID when calling* — Determines whether your number is hidden or presented to the person you are calling. Press **Change** to see the options *Default/On/Off*.

Voice mailbox settings

For information on voice mailboxes, see page 114.

- 1 Press the Menu key and select *Settings > Voice mailboxes*.
- 2 To change the settings of a voice mailbox, highlight it and press **Edit**. A dialog with two pages opens. See Figure 34.

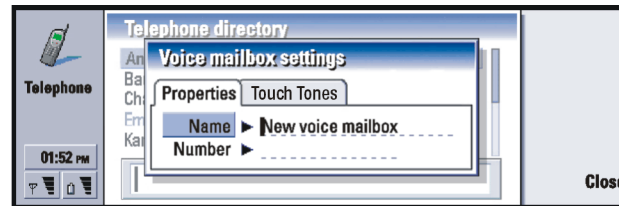


Figure 34

Properties page

Define the following options:

Name: Type a descriptive name for the mailbox.

Number: Type a number for the mailbox obtained from the system service.

● **Note:** The type of voice mailbox determines whether you can edit both of these fields. For example, the name and number of a SIM voice mailbox cannot be edited.

Touch tones page

Touch

tones: Define touch tones for a voice mailbox not provided with your SIM card. Each tone is represented by a character. Press **Add** to type characters and store them with a label, such as touch tones2. You can also select *No touch tones*. If you are editing a voice mailbox provided with your SIM card, this page is dimmed.

Call settings

1 Press the Menu key and select *Settings > Call...*

2 Define the following options:

Audio when cover opened: Determines whether the handsfree mode is selected automatically when you open the cover. Press **Change** to toggle *On/Off*.

Automatic redial: When this setting is set *On* and you call a number that is busy or does not answer, the communicator attempts to call the number until the call is connected. Press **Change** to toggle *On/Off*.

Advanced settings

1 Press the Menu key and select *Settings > Advanced...*

2 Define the following options:

Call costs page

If your system supports the call charging display service, use this page to change call charge settings and to view cost counters. Your communicator will prompt you for your PIN2 code. If this page is dimmed, your SIM does not support this system service.

Tip: To see the phone serial number, press the Menu key and select *Tools > Serial number (IMEI)*. Your service provider may ask you for this information.

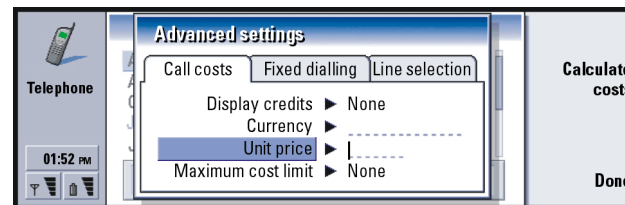


Figure 35

Display credits: Determines the information about call costs shown in the call display during a call. The options are *No/Used/Remaining*. Credits are amounts of money, measured either in units or currency.

Currency: Type a maximum of three characters to indicate your choice of currency. You can type numbers or letters. For example, you can type 'FIM' for Finnish currency. This field is used with *Unit price* below and with *Show in currency*.

Unit price: If you use currency to measure call costs, type a decimal number for the price of each charging unit. You must also complete the *Currency* field above.

Maximum cost limit: You have two options: *No limit* or a value that you can define in the field. You can define the limit in either units or in currency. If you are in a call when the cost limit is reached, the call ends. You cannot make any more calls. You see a note on the display before and after the call limit is reached.

Press **Calculate costs**: The information in this dialog is:

Last call: - The cost of the last call made.

All calls: - The cost of all calls made since the cost counter was reset. See Figure 36.

Remaining credits - If you have defined a limit in *Maximum cost limit* this field displays the amount of money or units remaining.

Press either **Show in units** or **Show in currency** to choose how you want call costs to be displayed in your communicator. 'Units' is a system measurement, such as 21 units. 'Currency' is shown in the characters you have typed in the *Currency* field.

Press **Clear costs** to clear the cost counters. You are required to enter your PIN2 code.

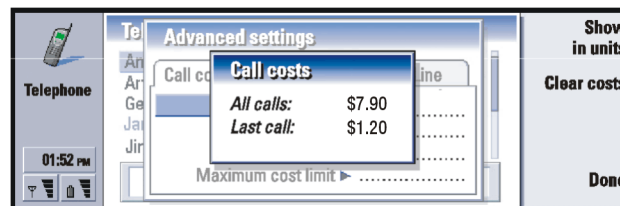


Figure 36

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

Fixed dialing page

Fixed dialing is a system service which allows you to restrict your calling to a limited set of numbers stored in the SIM card. The service is offered by some service providers. When the fixed dialing service is active, the SIM phone book list shows only numbers in the fixed dialing list. You still have access to the communicator's Telephone directory, but you cannot call those numbers. If your SIM card does not support this system service, this page is dimmed.

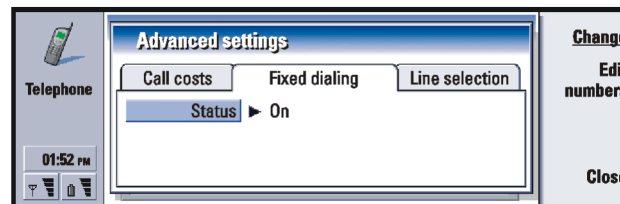


Figure 37

If you want to change the settings or view the fixed numbers, you are required to enter your PIN2 code. When the service is set to *On*, press **Edit numbers** to add, modify, or delete numbers.

You are required to enter names and numbers into the fixed dialing list.

● **Note:** When fixed dialing is set to on, calls may be possible to certain emergency numbers in some systems (such as 911 or other official emergency number).

Line selection page

If you need two lines (phone numbers) for your communicator, you must subscribe to the alternate line system service and check that this feature is activated in your communicator. If this service is unavailable or you do not use it, the Line selection page appears dimmed.

Each line can have different settings for some of the Telephone features.

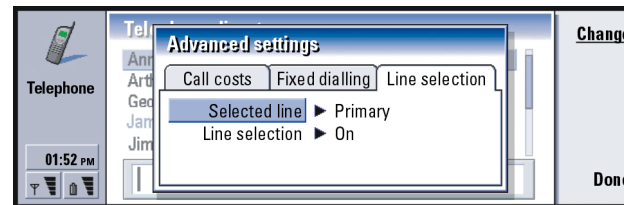


Figure 38

The options on this page are:

Selected line: Defines the line used for outgoing calls. The options are *Primary*/*Alternate*. Fax calls always use the primary line. If *Block line selection* is active (see the next paragraph) you cannot change the line in use.

Block line selection: Allows you to block the changing of the selected line. The values are *On/Off*. Changing the value requires you to enter your PIN2 code.

● **Note:** Block line selection option is only provided by some service providers.

Flight profile

The flight profile prevents you from accidentally turning on the phone in an aircraft. To select the flight profile:

- 1 In the Telephone main view, press the Menu key, scroll across the menu bar to the Profiles icon , then highlight *Flight*
- 2 Press **Select**.

With the flight profile active, you may do tasks which do not require the use of wireless system. For example, you can read previously downloaded mail, write mail, notes, short messages, faxes, or update your calendar. Once you have left the aircraft, turn off the flight profile by pressing **Exit profile**. Then you can turn on the phone by pressing , and your short messages, faxes, and mail will be sent automatically.

When the flight profile has been selected, emergency calls must be made from the phone (close the communicator cover):

- 1 Press . The phone display will read *Flight profile is active*.
- 2 While the note is visible (for approximately five seconds) you can dial an emergency number preprogramed into your communicator, for example, 911.
- 3 Press .

- **IMPORTANT!** Never use the phone when in an aircraft. If the aircraft personnel allow use of the communicator interface, you **MUST** activate the flight profile. The flight profile will allow use of the communicator interface only and will prevent use of the phone. Be aware that all communications applications require use of the phone.

7. Contacts

You can use the Contacts application to create, edit, and manage all contact information, such as phone numbers and addresses.

Start the Contacts application by pressing the Contacts application button on the keyboard.

The main contacts database is in the communicator's memory. You can also store contacts in the SIM card and in databases on an attached memory card.

You can synchronize your contacts with Microsoft Outlook, Lotus Notes, and Lotus Organizer programs when you connect your communicator to a compatible PC. For information on synchronising your contacts with a PC, see the PC Suite Guide on the sales package CD-ROM.

Contacts directory

The main view of Contacts contains two frames.



Figure 39

 **Tip:** You can toggle between the two frames with the Arrows or Tab keys.

In the left-hand frame, there is a list of contacts in the currently open contacts database. At the top of the list there is your own card and other available contacts databases. Below the list there is a search box for finding entries.

In the right-hand frame there is the currently selected contact card.

Contacts databases can be located in the communicator's internal memory, on a memory card, or on a SIM card. A memory card may contain several contact databases. Contact data is shown for one contacts database at a time. For example, to see contacts stored on the SIM card, use the Arrows key to scroll down the list to the SIM card and press **Open**.

An individual contact card contains the information of one person. A group contact card contains more than one contact person. You can see the name of a group contact card in **bold** font in the list.

Contacts are listed by name. You can change the sort order of the list. See 'General page' on page 149.

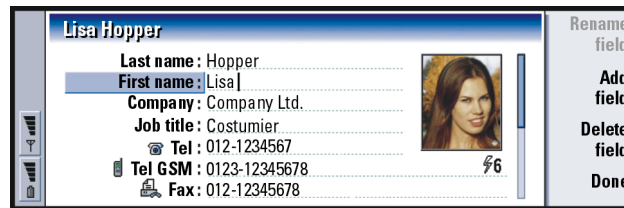
You can create more than one contacts database in a memory card. For more information see page 150.

 **Note:** You cannot delete your own business card, the internal contacts database of the communicator, the contacts database on a SIM card, a read-only memory card contacts database, or contacts in a read-only contacts database.

Make a contact card

- 1 In the Contacts directory main view, with the left-hand frame highlighted, press **New card**. A new card is created using the default template.

- 2 To make a new contact card using a particular template, press the Menu key and select *File > New card*. You are prompted to choose a template from a list.
- 3 When the contact card opens, enter information into the various fields. You can fill in the information on your own business card using the same method. See an example in Figure 40.
 - **Note:** The title of the P.O. Box field is only displayed when editing the fields. To display the words 'P.O. Box' before the P.O. Box number after editing type, for example, 'P.O. Box 123' in the field.
- 4 To save your contact card, press **Done**.
- **Note:** The 1-touch dial icon  next to a contact card telephone number means that you have defined a 1-touch dial for that telephone number with the Telephone application.



Lisa Hopper

Last name : Hopper

First name : Lisa

Company : Company Ltd.

Job title : Costumier

Tel : 012-1234567

Tel GSM : 0123-12345678

Fax : 012-12345678

Rename field

Add field

Delete field

Done

Figure 40

Tip: To copy or move a range of contacts, select, the contacts, press the Menu key and select *File > More options > Copy to or Move to*.

Tip: If you cannot find the contact in this database, go to the top of the Contacts directory list, and open either the SIM card or the memory card database. You may have stored your contact in one of these other locations.

Open a contact card

- 1 In the Contacts main view, with the left-hand frame highlighted, select a card.
- 2 Press **Open** to open the card in a full display view.

Move or copy contacts from a SIM card

- 1 In the Contacts main view, with the left-hand frame highlighted, select the SIM card and press **Open**.
- 2 Press the Menu key and select *File > More options > Copy to or Move to*.
- 3 Choose the Contacts database as the target directory and press *Select*.

Search for a contact card

- 1 In the search field under the Contacts directory list, enter characters which match the beginning of the name of the contact. For example, to find Manfred, enter M or Ma or Man. The names of contacts which match the characters you entered are displayed.
For more information on the rules of searching, see 'Notes on using the search field' on page 138.
- 2 Using the Arrows key, select a contact and press **Open**.

Notes on using the search field

A search checks the most important fields in a contact card. The matching of search criteria is limited to the beginning of words. For example, to search using the characters 'Ann' finds 'Annabel' but not 'Joanne'.

The search also checks the contents which follow the following characters: '.' (period) or '/' (forward slash) or '@' ('at' symbol) or '~' (tilde).

Example:

john.carr@florida.edu or
http://florida.edu/
~john.carr

Change fields in a contact card

To add a field

You can add fields to a contact card to suit your own circumstances. For more information on specific fields, see 'Information on fields' on page 139.

- 1 Open a contact card.
- 2 Press **Add field**. A list opens, showing fields you can add to the card.
- 3 Using the Arrows key, select a field and press **Select**.

Rename a field

You can rename fields to suit your contacts. For example, after adding three new *Tel* fields, you could rename them to *Tel (Business)*, *Tel (Private)*, and *Tel (Car)* respectively.

- 1 Open a contact card.
- 2 Select the field you want to rename.
- 3 Press **Rename field**. A list of alternative names for the field opens. If you are not allowed to rename the field, the **Rename field** command button is dimmed.

 **Tip:** If you want to delete a field on all cards based on the same template, it is simpler to delete it from the template attached to the card. See 'Create or modify templates' on page 141.

Information on fields

Company, First name, Last name, Suffix, Title, Middle Name, Job title, Birthday – You can have only one of each of these fields.

Tip: To play a ringing tone, use the File manager application to open a ringing tone file. See 'Open a file' on page 248. The default ringing tones are not displayed in the File manager.

Telephone number fields – Storing a '+' (plus) character before the country or region code allows you to use the same phone number abroad. Enter mobile phone numbers in this field to send short messages.

Country or region– Enter a country or region name. If you want the address of a contact to be displayed in the format of the country or region, use the same country or region names as listed in the option *Default country or region* on page 149.

● **Note:** Some extra types of field, such as *Job description*, may appear only if they exist in an imported contact card.

Attach a ringing tone

You can set a specific ringing tone for each contact card. When that contact calls you, the communicator plays the chosen ringing tone (if the telephone number is sent with the call).

- 1 Open the contact card.
- 2 Press the Menu key and select *Card > Ringing tone*. A dialog showing the current ringing tone of this contact is displayed.
- 3 Press **Change**. A list of default sounds is displayed.
- 4 Select a sound and press **Select**. Press **Browse** to search for other sound files stored in the communicator.

● **Note:** To use personal ringing tones, this feature must be active in the profile that you are using. For more information, see 'Create a new profile' on page 121.

Insert a picture

- 1 Open the contact card.
- 2 Press > on the Arrows key to select the picture frame on the right-hand side of the card. Press **Insert picture**. A dialog displaying the contents of the default folder opens. Press **Browse** to search for image files, if necessary.
- 3 Select a file and press **OK**. The image is opened in an image viewer. The framed area will be inserted into the contact card. Move the area with the Arrows key and enlarge or reduce the frame size with the + and - buttons. Press **Insert**. For more information, see 'Imaging' on page 271.

Tip: To define your default folder, go to Control panel and open the Default folder application.

Tip: Alternatively, to insert a picture, press the Menu key and select *Card > Insert picture*.

Create or modify templates

Templates define a set of fields which the communicator uses when creating or displaying a contact card. The default template provides a typical range of fields. You can modify the default template. You can also create custom templates with fields suitable for a particular group of people, such as those living overseas.

Tip: Templates do not apply to contact cards in the SIM card, because the layout of a SIM contact card is fixed.

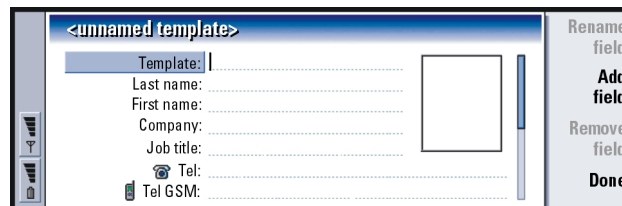


Figure 41

- 1 Press the Menu key and select *Tools > Card templates*. A list of templates opens.

- 2 Either press **New** to create a new template, or move to an existing template in the list and press **Open**. A contact card template opens.
- 3 Edit the template. You can change the name of the template and add or remove fields.

After you have created a contact card, the card and its template are linked as follows:

- In a template, if you add or change fields or their labels, changes affect all contact cards created from that template. If a field is deleted from the template, the field is deleted from all the cards, except where the field contains data.
- In a card, if you remove fields that belong to a template, the empty field will still be there the next time you open the card.

Store touch tones

Touch tones are the tones you hear when you press the number keys on the phone keypad. Touch tones allow you to communicate with voice mailboxes, computerized telephony systems, etc.

You can store a sequence of touch tones for a contact card. When you make a call to the contact, you can retrieve the sequence. It will save you from re-entering the characters.

- 1 Open or create a contact card.
- 2 Press **Add field**. A list opens.
- 3 Scroll down the list to *Touch tones* and press **Select**. The touch tone field is inserted in the contact card.
- 4 Enter a touch tone sequence in the touch tone field.

If you need a phone number-touch tone combination number for a contact, store the phone number followed by the touch tone sequence in the *Tel* field. You can use the following non-numeric characters:

Character	Function
*#	The asterisk and hash symbols may be used if the touch tone service requires them
p	Inserts a pause of approx. 2 seconds before, or between, touch tone characters
w	If you use this character, the remaining sequence is not sent until you press Send tone again during the call.

Create contact groups

You can create contact groups to save time by sending e-mails and short messages to all members of the contact group in one action.

- 1 With the Contacts directory main view displayed, press the Menu key and select *File > New group...* A blank group contact card opens.
- 2 Enter a name for your group.
- 3 To add contacts to the group, press **Add member**. A list of contact cards and groups opens.
- 4 Select a contact and press **Add**. Note that you can add another contact group to a group.
- 5 To attach a picture for the group, press > on the Arrows key to move to the picture frame. Alternatively, press the Menu key and select *Group > Insert picture*. A dialog displaying the contents of the default folder opens. Select a file and press **OK**, or press **Browse** to search for a picture file.

6 To save the group contact card, press **Done**.

An example of a contact group with members is shown in Figure 42.

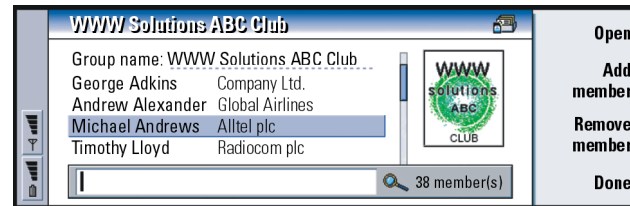


Figure 42

The company name, if it also exists in the original contact card, appears to the right of the name of the contact. Select **Open** to view the details of any of the group members.

Change group memberships for a contact or a group



Figure 43

- 1 To view or change the groups to which a contact or a group belongs, open the contact card, press the Menu key, and select *Card or Group > Belongs to groups*. A list opens, showing memberships for the contact or group.
- 2 To add the card to a new group, press **Add to group**. A list of contact groups in the current database opens.
- 3 Select a group and press **Add**. Your contact card or group contact card is added to the group.
- 4 Press **Done** to save your changes.

Create a SIM contact card

You can view the SIM directory by selecting SIM card in the Contacts directory. The contacts in your SIM card are displayed with SIM location numbers, as shown below:

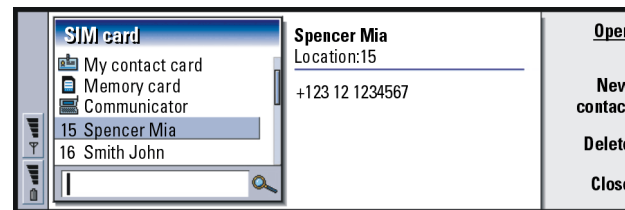


Figure 44

- 1 In the SIM card main view, press **New contact**. A dialog opens, as shown in Figure 44. If fixed dialing is active, the SIM contents show only your fixed dialing numbers. For more information on fixed dialing, see page 131.
- 2 The memory location shows the first free location number. To change the location, press **Change**.

3 Type a name for the contact.

4 Type a number for the contact.

● **Note:** The length of the name and the phone number you can enter is defined by the SIM card. For example, some SIM cards allow a maximum of only fourteen characters.

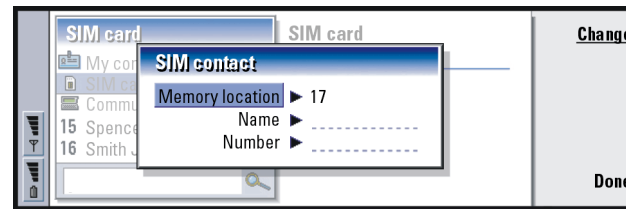


Figure 45

SIM directory options

You can sort the contents of the SIM directory in alphabetical order or by memory location. Press the Menu key and select *View > Sort by > Name*, or *Sort by > SIM location*.

To see a summary of the usage of the SIM database, press the Menu key and select *File > Properties*. If fixed dialing is active, you can see only information about fixed dialing numbers.

Send a contact card as a business card

When you send or receive a contact card between the communicator and other devices, the term 'business cards' is used. A business card is a contact card in a format suitable for transmission, usually vCard format. You can add received business cards to your Contacts directory, where they become contact cards.

- 1 In the Contacts directory main view, select the card you want to send.
- 2 Press the Menu key and select *File > Send*. In the *Sendsubmenu*, make a further choice of media: *As a mail* *As a short message* *Via infrared*. You may have other sending options if you have installed additional software. An editor dialog opens, depending on the sending medium you have chosen, as shown in the example below. The contact card you want to send has now become a 'business card'.

Tip: You can send only one business card in each message you send; however, you can send it to many recipients.

Tip: PC mail and the short message service are explained in the 'Messaging' chapter, starting on page 199. If a contact card is sent as a short message, the card is sent in the *Sending format* defined on page 150.

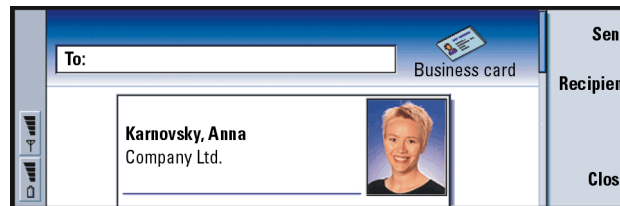


Figure 46

- 3 To choose who receives the sent card messages, press **Recipient**.

Tip: If you change the setting to include images in the message, do not forget to change it back after you have sent the message to reduce call charges.

- 4 If you are sending via the short message service, the images are left out by default to reduce call charges. If you want to include the image in the message, you must change the setting. See 'Send as a short message page' on page 150.
- 5 If you are about to send via infrared, make sure you activate the receiving of infrared in the other device first.
- 6 Press **Send**.

Receive a business card

When you receive a business card from another device, you are alerted by a notification message. This message appears automatically on the display, in any application. Follow the screen prompts to view the business card.

Note the following information about the contents of received card(s):

A field is displayed if it is recognized; if not, it is ignored.

Audio data, in a supported format, is set as the personal ringing tone of the contact (if you choose to add the card to your Contacts directory)

To add the received card to your Contacts directory, press **Add to Contacts**. The card is converted to contact card format. To decline the card, press **Delete**.

Settings

Press the Menu key and select *Tools > Settings*, then select a page, as follows:

General page

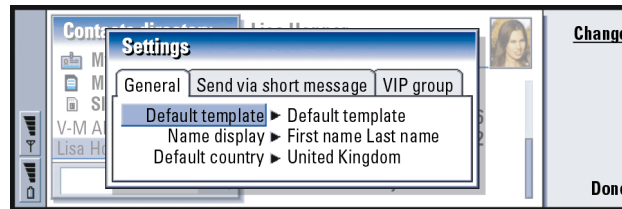


Figure 47

Default template: Allows you to define which template is used when creating a new contact card. When you press **Change**, you can choose a template from a list of templates used with the current database.

Name display: Allows you to define the display order of names in the Contacts directory main view. The values are *First name Last name/Last name, First name*. The names will be displayed in the same order in the Telephone application and the cover phone.

Default country or region: Concerns the country or region whose address format is used when viewing contact card addresses in various displays in the communicator. By default, the address format of the country or region you enter in the *Country or region* field of a contact card is used. If you do **not** enter information in the *Country or region* field, the communicator uses the address format of the *Default country or region*. Each country or region has a predefined address format. Press **Change** to see a list of countries and regions.

Example: The Nokia 9290 Communicator and most of the major e-mail clients support the vCard format.

Send as a short message page

Sending format: Allows you to define the format used when sending a business card via the short message service. The values are *Compact* and *vCard*. *Compact* is more widely supported but the number of fields sent is more restricted. Use *vCard* format if you know the receiving device understands *vCard* format. Using *vCard* format, you can send all fields except *Note* and *touch tones*.

Send contact card pictures: Allows you to control the attaching of pictures when sending business cards in *vCard* format via the short message service. The options are *No* and *Yes*.

VIP group page

VIP group: Allows you to nominate an existing contact card group to be treated as *VIP group*. You can restrict the ringing of incoming calls so that only calls from a member of a *VIP group* will ring, the others will not ring. See Profile settings, 'Other page' on page 123.

Create a new contacts database

Contacts databases are created on a memory card.

- 1 Press the Menu key and select *File > More options > New database*.
- 2 Type the name of your database, then press the Enter key. See Figure 48. Your new database is added to the Contacts directory as a folder.

- 3 To add a new card to the new database, select and open the database in the Contacts directory, then press **New card**. To copy or move contacts to the new database, select existing contacts from the Contacts directory, press the Menu key, and select *File > More options > Copy to or > Move to*.

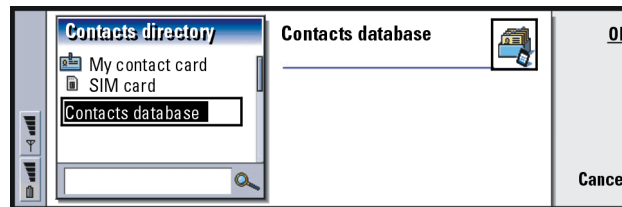


Figure 48

Tip: To see a summary of the usage of the database, press the Menu key and select *File > Properties*.

- **Note:** If you have a read-only memory card, you cannot make changes to the contacts or databases on that card.

8. Calendar

- In the Calendar application, you can create and check your scheduled events, appointments, anniversaries, and birthdays. You can also list things to do and set alarms to all of the calendar entries.
- You can synchronize your calendar and tasks with Microsoft and Lotus programs when you connect your communicator to a compatible PC. For information on synchronization, see the PC Suite Guide on the CD-ROM.

Calendar entries

- There are four types of entry that you can store in the Calendar application:
- Appointment entries are the basic entries in your calendar.
- Event entries are related to the whole day, not to a specific time of day. Event entries do not appear in the Weekly time schedule.
- Anniversary entries are repeated annually on the same date. Use Anniversary entries for annual reminders of important dates, such as birthdays or celebrations.
- Task entries are for writing down lists and things to do. These tasks can be prioritized and organized into task lists. Tasks can also have deadlines.

There are seven different views to view entries. Press **Change view** to choose a view. For more information about different views, see 'Views' on page 160.

Example: Use appointment entries for meetings and business lunches.

 **Tip:** You can use the standard clipboard command shortcuts Ctrl+X and Ctrl+V to cut entries and paste them to a different place.

Tip: To send a calendar entry to reserve a time in other device calendars, move to the date that contains the entry and select the entry with the Arrows key, press the Menu key and select *Send > As a short message* or *Via infrared*

Tip: To change the default values of an entry details dialog, press the Menu key and select *Entry > Default settings*.

Tip: To see how attachments are added to an entry, see page 160.

Create new calendar entries

There are two ways to create calendar entries:

- Start typing your entry. As you enter characters, Calendar opens the default entry dialog of the current view.
- Press the Menu key and select *File > New entry*. Select the entry you want to create. The options are: *Appointment...*, *Event...*, *Anniversary...*, or *Task...*
 - This is the way to create a new calendar entry when you do not want to use the default entry type for the particular view.

Define information in a calendar entry

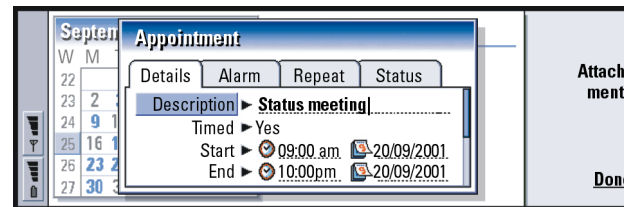


Figure 49

Note: Day, event, anniversary, and task entry all have slightly different entry dialogs. The following descriptions of each dialog page list all the possibilities.

Details page

- **Description:** • The description of the entry.

- **Timed:** • Specifies whether a day entry is timed or untimed. 'Timed' means that the entry has a specific start time, end time, and duration. 'Untimed' means that the entry happens on a particular date, but at no specific time. If you select *No*, you may have to define the date for the day entry in the field below. If you select *Yes*, you must define the starting and ending time.
- **Date:** • The date of the entry.
- **Start:** • The time or date when the entry starts, depending on the entry type.
- **Display year:** • Displays the start year of the anniversary, the number of years that have passed since the start year, or no year information. The options are *Starting year/In number of years/None*.
- **Duration:** • The duration of the entry. If you change the value in the *Start* and *End* fields, this field is updated.
- **End:** • The time when the entry ends.
- **Priority:** • The priority of a task. The options are *High/Normal/Low*.
- **Task list:** • The task list to which the task entry is connected.
- **Due date:** • The deadline of a task.
- **Start warning:** • The days before the due date when a task starts being shown in today's entry list.

Tip: An untimed entry is displayed with a 🕒 icon.

Example: The start year may be a person's year of birth, and the number of years since the start year may be a person's age.

Alarm page

- **Set alarm:** • Specifies whether an alarm is set for the entry.
- **Time before:** • The time when an alarm set for a timed day entry will go off.
- **Alarm time:** • The time when an alarm set for an untimed entry will go off.
- **Days before:** • The number of days before an entry when an alarm will go off.

Tip: You can set an alarm for a task entry only if you have also set a *Due date*.

Example: If your club has a meeting which takes place on the first Monday of every month, you can set the entry to recur accordingly by selecting *Monthly by day*.

Repeat page

- On this page you can determine whether and when you want an entry to be repeated:
- *Repeat type:* • The repeat type for the entry. The options are *No repeat*/*Daily*/*Working days*/*Weekly*/*Monthly by day*/*Monthly by date*/*Yearly by day*/*Yearly by date*.
- **Note:** Define *Repeat type* first since the choice of options in the rest of the fields depends on what you have selected.
- *Repeat on days:* • The days on which the entry is repeated. Use the Arrows key to go to a day you want to select and press **Select**. You can select more than one day at a time. See Figure 50.

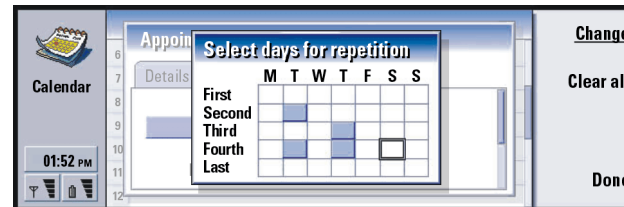


Figure 50

- *Repeat on dates:* • The dates on which the entry is repeated. Use the Arrows key to go to a date you want to select and press **Select**. You can select more than one date at a time. See Figure 51.

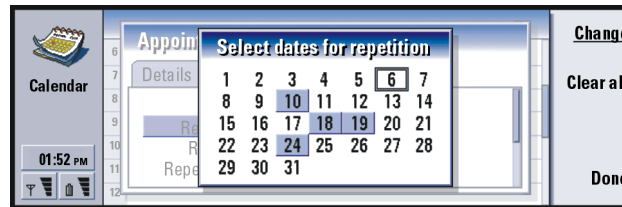


Figure 51

- **Repeat interval:** • The time period between repeats.
- **Repeat indefinitely:** • Frequency of the repetition. The options are *Yes/ No*.

● **Note:** It is still possible to remove or edit a single entry even if the entry is repeating. If you edit an entry and change any options except the repeat options, a selection list appears. You then choose how you want the change to take place from the following options: *All occurrences/Only this occurrence/This and future occurrences/This and past occurrences*

Status page

- On this page you can define a background color and status for the entry, as well as specify whether you want to synchronize the entry:
- **color marking:** • Allows you to define the color and letter for the entry symbol, which appears after the text of the entry in all views. When you check your calendar entries in the Weekly time or Year schedules, the color is used for the bar indicating the entry. The letter is used to filter Calendar entries in the Year schedule.
- **Tentative:** • Whether an entry is confirmed or not. A tentative entry is indicated with 📅 icon next to the entry text.

Example: To define an entry that is repeated *Daily* with two days between every repeat, define "every 3 days" in *Repeat interval*.

■ **Tip:** color is a handy way to categorize entries – you see more easily how your time is reserved.

Example: If you are not sure if an entry will take place, you can mark it as *Tentative*.

- *Crossed out*: • Whether an entry has been completed or not. Crossing out an entry does not remove it from the calendar.
- *Synchronization*: • Whether your calendar entries are shown to others when you connect to the network and synchronize your calendar. The options are *Public*, *Private*, and *No synchronization*. See the PC Suite Guide on the CD-ROM for more information about synchronization.

Edit an entry

- 1 Select the entry in the view.
- 2 Press Enter. A details dialog for the entry opens. Edit the details on the various pages.
- 3 You can now, for example, reset the alarm or redefine how the entry is repeated in the calendar. See 'Define information in a calendar entry' on page 154.

Change an entry type

Example: You might have entered an event, but you now want to change it to an appointment.

- 1 Select the entry in the view.
- 2 Press the Menu key and select *Entry > Change entry type...*
- 3 Choose a new entry type from the list.

Delete entries

- Calendar entries accumulate over time and consume memory. To save memory, delete entries no longer needed from time to time.

● **Note:** You can also back up your calendar data to a compatible PC. See the PC Suite Guide on the sales package CD-ROM for details.

Delete a single entry

- There are two ways to delete a single entry:
- Select the entry in the view, then press the backspace key. A note is displayed asking you to confirm the deletion.
- Select the entry in the view, press the Menu key, and then select *File > Delete entry*. To confirm the deletion, press **OK**.

Delete a range of entries using defined criteria

- 1 Press the Menu key and select *Tools > Move/Delete....* A dialog box is displayed with a suggested range of entries to be deleted.
- 2 Press **OK** to delete all the entries defined in the dialog box at step 1, or press **Options** to define further criteria (including whether you want to 'move' or to 'delete'. A dialog with two pages opens. Define the following and press **Done** to return to the previous dialog.

Details page

- **Action:** • The consequences of removing the entries. The options are *Delete* / *Move to a file*.
- **Entries:** • The types of entries which will be removed. The options are *All* / *Crossed out*.

■ **Tip:** To change the default entry type of a particular view, press the Menu key and select *View > View settings....* See *Default entry type* in 'View settings' on page 170.

■ **Tip:** The shortcut to delete a single entry is to select it and press Ctrl+D.

■ **Tip:** You can move entries to another file and then to a PC to free up memory.

- **Time period:** • The time scope of the removal. The options are *Whole calendar/Until today/From today/Other*.
- **Start:** • The start date of the entries to be removed.
- **End:** • The end date of the entries to be removed.

Entry types page

- Choose from the following options: *Appointments/Events/Anniversaries/Tasks*.

View, create, and delete attachments

- 1 Open a calendar entry by pressing Enter. The entry details dialog with four pages opens.
- 2 Press **Attachments**. A selection list of attachments linked to the calendar entry opens.
- 3 To view a selected attachment, press **Open**.
4 To create a new attachment, press **New**.
5 To delete an attachment, press **Delete**.
- 6 If you want to add a new attachment, select the type of attachment and press **Insert new** to create the new attachment or **Insert existing** to browse for an existing attachment.

Views

 **Tip:** You can press the Calendar application button repeatedly to cycle the view.

- The Calendar consists of seven views. The purpose of each view is to help you organize your calendar so that you manage your time effectively on a daily, weekly, monthly, and yearly basis. You can customize the display of each view.

Commands in all views

- The following command buttons are available in all of the views:
- **Edit** - Opens a selected calendar entry for editing.

New entry - Enables you to create a new calendar entry if there are no entries for that day. You can also create a new calendar entry by just starting to enter characters on the keyboard, see 'Create new calendar entries' on page 154.

Change view - Opens a selection list from which you can switch to any of the other calendar views. The options are *Month/Week/Day/Task lists/Weekly time schedule/Year schedule/Anniversaries*.

Go to date - Opens a search dialog from which you can, by typing in the desired date, switch to any date in the calendar. Enter the date and press **OK**. Press **Today** to go to today's date. Press **Browse** to browse through the calendar.

Tip: In most of the views you can go to today's date by pressing the Space key on the keyboard.

Month view



Figure 52

Tip: To edit an event, the right frame must be active. If you are in the left frame, go to the desired date and press the Enter key. The focus moves to the right frame.

Tip: To see a list of icons that are displayed in all views, see page 166.

Tip: To change the starting day of the week, press Extras, open the Control panel, and select *Regional settings*. Choose *Date* page and then *First day of the week*.

Tip: To move the position of the title box from left to right, press the Menu key and select *View > View settings....* See *Title location* in 'View settings' on page 170.

Left frame

- One row in the day table equals one week. Abbreviations for the days of the week are in the highest row.
- Today's date is marked in green.
- Dates that have scheduled events are marked in bold and blue.
- The currently selected date is highlighted.

Right frame

- The events of the currently selected date are shown in the day details frame on the right.

Week view

October 2001		09:00 am	📢 Presentation	11	Edit Change view Go to date
Week 41		01:00 pm	Lunch	12	
8	Mon	09:00 am	Meeting in Xana	12	
		10:00 am	🕒 Dentist	Fri	
9	Tue			13	
				Sat	
10	Wed	06:00 pm	Theatre	14	
			📞 Call mom	Sun	

Figure 53

- The week view shows the events for the selected week in seven day boxes.
- The colored indicator area next to a day box shows the date and name of the day. Today's indicator area is framed green.

Day view

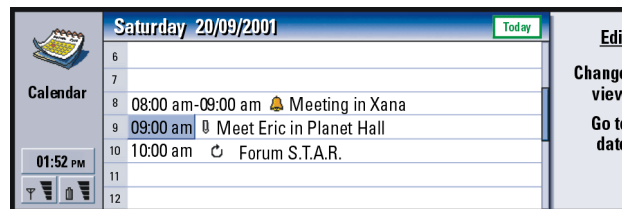


Figure 54

- The day view shows the events for the selected day.
- Events are grouped into one time slot according to their starting time.
- To view the day view of the previous day, press < on the Arrows key. To view the next day, press >.

Tip: To change the time period covered in one time slot, press the Menu key and select *View > Viewsettings....* See *Time slot allocation* in 'View settings' on page 170.

Tip: In day and week views, you can quickly move to a different date by pressing the Tab key, selecting the desired date with the Arrows key, and pressing Enter.

Task lists

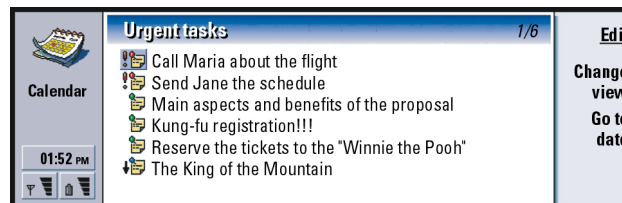


Figure 55

■ **Tip:** To see how to-do task lists are created, see page 167.

■ **Tip:** To see a list of all task lists, press the Tab key.

■ **Tip:** You can select different bar colors for different types of entries. See 'Status page' on page 157.

- You can create one or several business or personal task lists which may contain tasks with or without deadlines. You can also set an alarm or a repeat for a task.
- The page number in the upper right corner of the Task list view indicates the position of the task list among the other task lists. For example, in Figure 55, '1/6' means that there are altogether six task lists and 'Urgent tasks' is the first list.
- To view the previous task list, press < on the Arrows key. To view the next task list, press >.
- Due dates are shown to the right of a task, in brackets.

Weekly time schedule

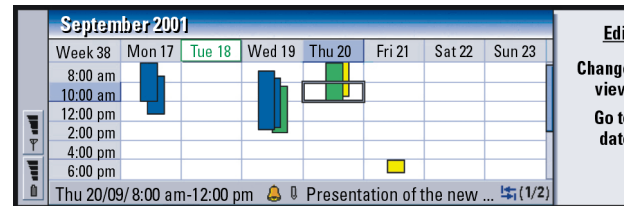


Figure 56

- The weekly time schedule shows the reserved hours for the selected week. This means that only timed entries are shown. The currently selected time box is framed.
- Entries are marked with bars.

- If a time box contains entries, the bar across the bottom of the weekly time schedule shows the details of the entry. The numbers to the right of the entry description indicate the number of entries contained in that time box. For example, 1/2 in Figure 56 means that you are seeing the details of the first of two entries.
- If a time box contains more than one entry, you can view a list of the entries by pressing the Tab key.

Example: Use a green bar for hobbies and a red bar for business trips to get a quick overview of your activities during a week. See 'View settings' on page 170.

Year schedule

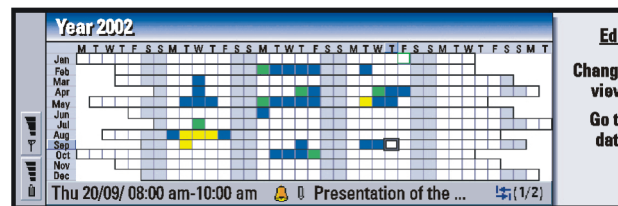


Figure 57

- The year schedule shows the timetable for the selected year. Only entries with colors are shown in the year schedule. If there are several colors connected to the day, only one can be shown.
- Abbreviations for the days of the week are in the highest row and the months of the year in the far left column.
- Time boxes have the same functions as in the Weekly time schedule.

Anniversaries

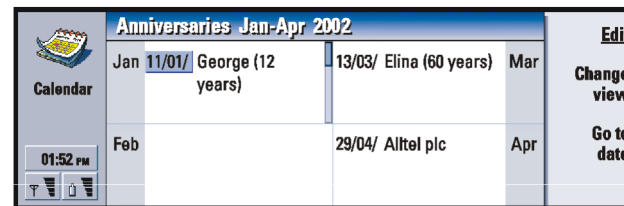


Figure 58

Tip: To change the number of months shown in the anniversary view, press the Menu key and select *View > View settings...* See *Months in view* in 'View settings' on page 170.

- The anniversary view shows the anniversaries for four months at a time. You can add here all the birthdays and other anniversaries that you want to be reminded of.

Note: Only anniversary entries are shown in the anniversary view.

Icons

- You can see the following symbols in Calendar:

-  - Alarm
-  - Anniversary
-  - Attachment
-  - Event
-  - Repeating entry
-  - Tentative entry
-  - Task
-  - Task, with high importance
-  - Task, with low importance

-  - Untimed entry

Task lists

Create a new task list

- 1 Press the Menu key and select *File > New task list...* A dialog with two pages opens.
- 2 Define the task list on the two pages of the dialog. See 'Details page' and 'Visibility page' below.
- 3 When you are ready, press **Close**. The new task list is added in Task lists.

Details page

- *List name*: •The name of the task list.
- *Position*: • The position of the task list among the other task lists.
- *Sorting*: •How the tasks are sorted hierarchically in the task list. The options are *Manual*/*Priority then date*/*Date then priority*.

Visibility page

- *Show tasks*: •The views in which the tasks on the list will be shown. The options are *All views*/*Task list view*.
- *Task position*: •The position of the tasks in an event list if the tasks are all shown in *All views*

Edit a task list

- 1 Open the task list.

Tip: If you choose to sort a task list manually, all tasks on the list appear numbered. You can enter a new task entry randomly by focusing on a location in the list. You can also change the order of the tasks by cutting and pasting (Ctrl+X and Ctrl+V).

- 2 Press the Menu key and select *View > Task list settings...* A dialog with two pages, *Details* and *Visibility*, opens, as explained above.

Delete a task list

- 1 Open the task list.
- 2 Press the Menu key and select *File > Delete task list*

Search for Calendar entries

You can search through the entries for particular pieces of texts.

- 1 Press the Menu key and select *Tools > Find entry....* A search field opens.
- 2 Enter a key word for the entry you want to search for, or
 - 3 press **Options** to restrict the search by defining a set of qualifications. A dialog with two pages opens.
 - 4 Define the following:
 - 5 **Details page**
 - 6 *Refine search*: Defines the search. The options are *No* *Entries with an alarm* *Entries with repetition* *Crossed out entries*.
 - 7 *Time period*: The time scope of the search. The options are *Whole calendar* *Until today* *From today* *User defined*.
 - 8 *From*: The starting point of the search.
 - 9 *Until*: The ending point of the search.
 - 10 **Entry types page**
 - 11 Choose the type of entries you want to find. The options are: *Appointments* *Events* *Anniversaries* *Tasks*.

12 To start searching, press **Find**. A chronological list of the find results is shown. See Figure 59.

Tip: You can stop a search by pressing **Stop**.

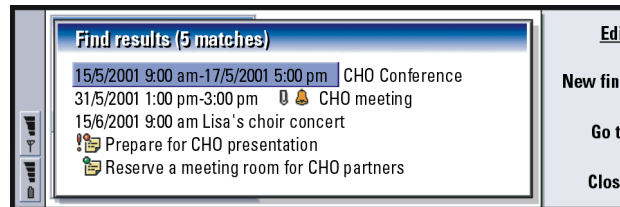


Figure 59

13 Select an entry and press:

- **Edit** to open the entry details dialog for editing,
- **Go to** to go to the date or view where the entry is located or,
- **New find** to start a new search.

14 Press **Close** to return to the currently active view.

Settings

General settings

- 1 Press the Menu key and select *Tools > General settings...*. A dialog opens.
- 2 Define the following:
 - 3 **Default view:** The default view when opening either another or a new calendar file.
 - 4 **Display untimed entries:** The location of untimed appointment, event, and anniversary entries in the entry list of all the timed views.
- 5 Press **Done** to return to the currently active view.

View settings

You can define the appearance of the view and default entry types for each view by following these steps:

- 1 Go to the view you want to define.
- 2 Press the Menu key and select *View > View settings...* A dialog with two pages opens.
- 3 Define the view settings on the two pages of the dialog. See 'Details page' and 'Entry types' below.
- 4 Press **Done** to return to the currently active view.

● **Note:** The contents of the dialog vary in different views. The following is a list of all the possibilities.

Details page

- *Default entry type:* • The entry type which is inserted in the view by default when you create a new entry. The options are *Appointment/Event/Anniversary/Task*
- *Wrap text:* • Specifies whether or not the information in the entry is wrapped when viewed in any of the views.
- *Title location:* • Specifies whether the title of the week is on the left or right of the display in the weekly view.
- *Time slot/Time slot allocation:* • The time period covered in one time slot of the daily views and weekly time schedules. The options are *2 hours/1 hour/30 minutes/15 minutes*.
- *Day starts:* • The time when a day starts in the Daily view.
- *Day ends:* • The time when a day ends in the Daily view.

- *Show color markings:* • Specifies whether all entry symbols or only symbols with the letter specified in *Default color* are shown in the year view.
- *Default color:* • The symbols and background colors of the different entry types in the particular view.
- *Months in view:* • The number of month boxes in the anniversary view.

Entry types

- On the *Entry types* page you can choose the entry types you want to appear in the view you are defining: *Appointments*/*Events*/*Anniversaries*/*Tasks*.

9. Internet

This chapter describes how to get access to the Internet and how to use the Internet applications, WWW browser and WAP browser.

● **Note:** The Mail application, described in the Messaging chapter, also uses an Internet connection. See 'Mail' on page 213.

To connect to the Internet,

- the wireless system you use must support data calls,
- the data service must be activated for your SIM card,
- you must have obtained an Internet access point from an Internet Service Provider (ISP), and
- you must have entered the proper Internet settings.

Your ISP can give you instructions on how to configure the Internet settings. Follow the instructions carefully.

● **Note:** You must have your phone turned on, within system coverage and free of any other voice or data call to connect to the Internet.

Setting up your Internet access point

● **Note:** To be able to use the Internet services, you need to configure an Internet connection. Some Internet service providers may offer you the possibility to configure your Internet settings by sending you a smart message via

SMS. This might reduce the number of settings you may need to enter yourself, or eliminate the need altogether. Please contact your Internet Service Provider (ISP) for details.

Internet connections

To set up and change the Internet settings, you have two choices:

- Go to the Control panel in the Extras application and open Internet access, see page 256, or,
- From the Internet application main view, press the Menu key and select *Tools > Internet access...* A dialog opens, see Figure 60.

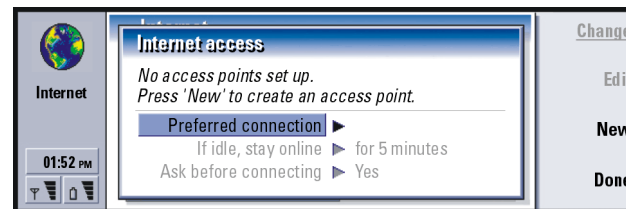


Figure 60

The first two lines contain a summary of the details of the preferred connection. Define the following:

Preferred connection: The default connection which will be used to connect to the Internet.

If idle, stay online: The connection to the Internet will automatically close after the inactivity period defined here. The options are *For 2 minutes/For 5 minutes/For 10 minutes/For 60 minutes*. ● **IMPORTANT:** Some Internet connections may appear inactive, but they may still be sending and receiving data in the background. These connections may delay the start of the inactivity period specified here, and therefore postpone the closing of the connection.

Ask before connecting: The options are *Yes/No*. If you choose *Yes*, a connection dialog appears every time you connect to the Internet, asking you to either confirm, change, or cancel the connection, or change the Internet access point. If you choose *No*, the communicator will choose the default Internet access point.

■ **Tip:** You may have to set up several Internet connections, depending on the sites you want to access. For example, browsing the WWW may require one setup; browsing your company's intranet may require another connection.

Create a new connection or edit an existing connection

- 1 In the Internet connections dialog, press **New** to create a new connection or **Edit** to edit an existing connection.



Figure 61

- 2 If you already have connections defined, you can use an existing connection as a basis for the new connection. After you have pressed **New**, press **Use existing**. Choose the connection you want from the list which appears, and press **OK**.
 - 3 A dialog on connection details opens. See Figure 62.
- **Note:** The exact values for the settings are provided by your ISP.



Figure 62

- 4 Define the following:

■ **Tip:** All your connections should have different names.

Connection name: Give a descriptive name for the connection.
Phone number: The modem telephone number of the IAP.

Password prompt: If you must type in a new password every time you log on to a server, or if you do not want to save your password, choose *Yes*. The options are *Yes/No*.

Username: Type in a user name if required by the Internet Service Provider (ISP). The user name may be needed to connect to the Internet, and is usually provided by the ISP. The user name is often case-sensitive.

Password: Type in a password if required by the ISP. The password may be needed to connect to the Internet, and is usually provided by the ISP. The password is often case-sensitive.

Confirm password: Confirm your password by retyping it in this field.

Press **Advanced settings** to define the Advanced settings of the connection. A dialog with four pages opens. See Figure 62.

Tip: Often the minimum requirement for an Internet connection is: *Phonenumber*, *Username*, and *Password*.

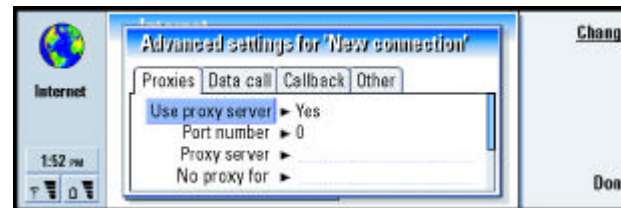


Figure 63

Proxies page

You may want to use a proxy to quicken access to the Internet. Note also that some ISPs require the use of Web proxies. Contact your ISP to determine proxy details.

Tip: If you set *Use proxy server* to *No*, *Port number*, *Proxy server*, and *No proxy for* are dimmed.

Example: Example domain names are: company.com and organization.org. In a list, separate domain names with semicolons.

Tip: To forward and restrict data calls, go to the Internet application main view, then press *Tools > Control panel > Data call restrictions*.

When you have made an Internet connection for your company's intranet, and you are unable to retrieve Web pages from the general WWW, you may need to setup a proxy server to retrieve Web pages outside your company's intranet.

Use proxy server: To use the proxy server, select *Yes*. The options are *Yes/No*. Use of a proxy server is dependent on the protocol.

Port number: The number of the proxy port. The port number is related to the protocol. Common values are 8000 and 8080, but vary with proxy server.

Proxy server: The IP address of the proxy server, or the domain name.

No proxy for: Define here the domains for which the HTTP proxy is not needed.

Data call page

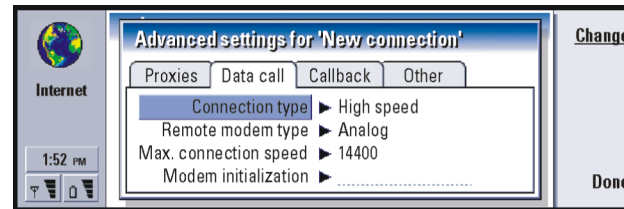


Figure 64

Connection type: The options are *Normal* // *High speed*

Note: To be able to use *High speed*, the system service provider has to support this feature, and if necessary, to activate it for your SIM card.

Remote modem type: The options are *Analog/V.110/ISDN/V.120/ISDN*. This setting can depend on both your GSM service provider and ISP, because some GSM systems do not support certain types of ISDN connections. For details, contact your Internet service provider. If ISDN connections are available, they establish connections more quickly than analog methods.

Max. connection speed: The options are *Automatic/9600/14400/19200/28800/38400/43200*, depending on what you have chosen in *Connection type* and *Remote modem type*. This option allows you to limit the maximum connection speed when *High speed* is used. Higher data rates may cost more, depending on the system service provider.

● **Note:** The speeds above are the maximum speed at which your connection will operate. During the connection, the operating speed may be less, depending on network conditions.

Modem initialization: Controls your communicator using modem AT commands. If required, enter characters specified by your GSM system service provider or ISP.

Callback page

Use callback: This option allows a server to call you back once you have made the initial call, so you have a connection without paying for the call. Contact your Internet service provider to subscribe to this service. The options are *Yes/No*.

● **Note:** Charges may apply for certain types of received calls, such as roaming and high speed data calls. Contact your GSM service provider for more information.

■ **Tip:** A very basic GSM data connection is:
Connection type: Normal,
Remote modem type: Analog,
 and *Max. connection speed: Automatic.*

- **Note:** The communicator expects the callback call to use the same data call settings that were used in the callback-requesting call. The system must support that type of call in both directions, to and from the communicator.

Callback type: The options are *Use server number*/*Use server number (IETF)*/*Use number below*. Ask your Internet service provider for the correct setting to use. The setting depends on the service provider's configuration.

Callback number: Type in your communicator's data phone number which the dial back server uses. Usually, this number is the data call phone number of your communicator.

Other page

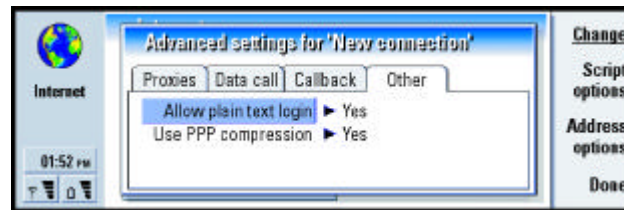


Figure 65

Allow plain text login: If you select *Yes*, the password at connection may be sent in clear. The options are *Yes/No*. For optimum security, use option *No*. Some Internet service providers require that this setting is *Yes*.

Use PPP compression: If you select *Yes*, this option speeds up the data transfer, if it is supported by the remote PPP server. The options are *Yes/No*. If you have problems with establishing a connection, try setting this to *No*. Contact your Internet service provider for guidance.

Script options

If you need to define script options for your Internet connection, press **Script options** on the *Other* page. A script can automate the connection between the communicator and the server. See Figure 66.

● **Note:** Scripts are not usually required when you establish a connection. To find out whether you need a script, contact your Internet service provider.

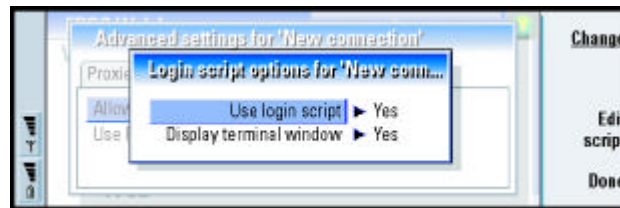


Figure 66

Press **Edit script** to edit the script. In the Edit script dialog you can press **Import script** to import a script. On importing, it replaces the current contents of the script file.

Define the following:

Use login script: The options are *Yes/No*

Display terminal window: The options are *Yes/No*. If you choose *Yes*, once a connection is established you see the execution of the script. Use this window when resolving connection problems related to scripting, with your Internet service provider.

■ **Tip:** Your Internet service provider may be able to provide you with a script.

■ **Tip:** Advanced users will find scripting an advantage, where use of scripting is allowed. You can obtain instructions from Forum Nokia at URL www.forum.nokia.com

Address options

Press **Address options** on the *Other* page, to define the IP and DNS addresses. See Figure 67.

Define the following:



Figure 67

Auto retrieve IP address: If you select *Yes*, the IP address is obtained automatically from the server. The options are *Yes/No*. This setting is also called 'dynamic IP address'.

IP address: The IP address of the communicator. If the IP address is obtained automatically, then you are not required to enter details here.

Auto retrieve DNS address: If you select *Yes*, the DNS (Domain Name Server) address is obtained automatically from the server. The options are *Yes/No*.

Primary DNS address: The IP address of the primary DNS server.

Secondary DNS address: The IP address of the secondary DNS server.

● **Note:** If you need to enter the *IP address*, *Primary DNS address*, or *Secondary DNS address*, contact your Internet service provider to obtain these addresses.

Connect to the World Wide Web

To connect to the World Wide Web,

- the GSM data service must be activated for your SIM card, and
- you must configure an Internet access point. For more information, see page 173.

● **IMPORTANT:** Beware of viruses. Only install onto the communicator software you have obtained from sources that offer adequate protection against viruses. For information on software installation and security certificates, see 'Certificate manager' on page 262.

To change the internet access point you use to connect to the WWW, press the Menu key in the main view of the WWW application and select *Tools > Edit Internet access...*

■ **Tip:** When you are browsing the WWW, some Web pages may prompt you to save (download) a file to your local disk (your communicator). See the IMPORTANT note in this section warning about viruses.

■ **Tip:** There is a glossary containing Internet terms and abbreviations at the back of this user guide.



Figure 68

When you take your communicator into use, it already has the following browser applications:

WWW – A World Wide Web (WWW) browser supporting frames and SSL protocol.

Tip: To access WAP services, you need both an Internet access point and a WAP access point. See page 192.

WAP – A browser for accessing various types of information, entertainment, and other services in Wireless Application Protocol (WAP) format. WAP is suited to mobile devices with small screen displays and limited amounts of memory. WAP uses mainly text but does support pictures.

To open the WWW browser,

- 1 Press the Internet application button on the communicator keyboard.
- 2 Select the WWW application and press **Open**. A dialog with the *Connection name* and *Phonenumber* of the Internet access point you are using is displayed. See Figure 69. You can also choose not to see the connection dialog when the connection is made; see 'Internet connections' on page 174.



Figure 69

- **Note:** In order to free up additional memory for large Web pages, all other applications are closed automatically when the WWW browser is opened.

To change the Internet access point, press **Change connection**.

- 3 Press **OK** to establish a connection.
- 4 If you have not redefined your default homepage, a Nokia 9290 link page opens. This page is located in the memory of your communicator and does not require an internet connection.

- 5 For information on opening Web pages and navigating in the Web, see 'Navigate in WWW' on page 185. For information on adding a page to your bookmark list, see 'Bookmarks' on page 191
 - 6 To close an application, press **Close**.
 - 7 To disconnect from the Internet, in any of the Internet applications, press the Internet button on the keyboard, then press **Disconnect**. Disconnection is immediate.
- **Note:** Depending on the network configuration and load, establishing an Internet connection may take a minute or more.

■ **Tip:** An alternative way to disconnect from the Internet is to close the cover and press the  key.

Navigate in WWW

There are several ways to navigate in the World Wide Web.

- If you know the address of the Web page that you want to visit, press the Menu key and select *File > Open > Web page...*, type the URL address into the address field, press **Go to**, select the *Connection name* in the *Connect to Internet* dialog, if required, and press **OK**.



Figure 70

■ **Tip:** To check the properties of a Web page that is currently open, press the Menu key and select *Tools > Information > Page...*

Example: An example of a URL address is **www.nokia.com**

Tip: For help on problems you may experience when downloading Web pages, see the Troubleshooting chapter.

Tip: To go to your home page, press the Menu key and select *Go > Home page*

Tip: To save frames, links, and images on a Web page in your communicator, press the Menu key, select *File > Save*, and select the appropriate submenu command.

- If you have a bookmark of the page you want to visit, press **Bookmarks**, select a bookmark in the Bookmarks list and press **Go to**.
- Select a link on your default home page and press **Go to**.
- **Note:** If the page and its components are encrypted by a security protocol, the security icon  appears in the line on top of the display.
- **Note:** Some servers have access restrictions that require a valid user name and password. In this case, you will be prompted for your user name and password before the Web page can be retrieved.

When the Web page is being retrieved, the line on top of the display shows the status of the connection, the title of the page, and the percentage of the page received.

To select links or hotspots, press the Tab key. To move backwards, use Shift+Tab. Alternatively use the Pointer tool; you can turn it on via the shortcut Ctrl+Q. See 'Pointer' on page 187 .

After the Web page has been retrieved, the following commands become available, depending on what is selected on the page:

- **Go to** - Takes you to the highlighted URL or link, which can be a hyperlink or hotspot.
- **Load image** - Enables you to retrieve an image and save it in your communicator.
- **Write mail** - Opens the mail editor for you to write a mail to the address in question.
- **Back** - Allows you to retrieve the previous page, if you have browsed through at least two pages.
- **Bookmarks** - Opens the Bookmarks view.
- **Stop** - Interrupts the retrieve operation.

- **Close** - Closes the WWW browser application.

Pointer

To make navigation in the WWW browser and Java applications easier, you can use the pointer. The functionality of the pointer is similar to a mouse, but it is controlled via the Arrows key and Enter key.

To turn the pointer on or off, press Ctrl + Q on the keyboard or press the Menu key and select *View > Pointer*.

To click with the pointer, press Enter. To select and areas, keep Enter pressed down and move the pointer over the area with the Arrows key.

● **Note:** If a Web page is slow to load, you can choose to reload the page or stop loading altogether; press the Menu key and select *View > Reload* or *Stop loading*. The reasons for slow loading may vary. For example, it can be due to the network configuration and load on the Internet and wireless system.

● **Note:** Stored passwords to individual Web sites are removed when the communicator is restarted or the cache is emptied. You can turn on *Empty cache on exit*; see 'Advanced page' on page 190.

■ **Tip:** You can scroll the page up and down by pressing Chr+^/v on the Arrows key.

■ **Tip:** Useful shortcuts are: Ctrl+R for *Reload*, and Ctrl+Z for *Stop loading*.

Change frame sizes

Where a Web page contains frames, you can change the frame sizes of the page, to view better the contents of a selected frame.

- 1 Press the Menu key and select *View > Change frame sizes*. The selected border is highlighted with arrows.

■ **Tip:** To change the active frame when a Web page contains frames, press Ctrl+Tab. To move forward inside a frame, press Tab.

- 2 Realign the border with the cursor and press **OK** or the Enter key.
 To cancel the previous move, press **Cancel**.
 To continue to realign another border, press **Next border**.

Open a frame as a new page

To open the currently active frame as a new page and discard the other frames, press the Menu key and select *File > Open > Frame as new page*

WWW settings

To change the WWW settings, press the Menu key and select *Tools > Settings*. A dialog with five pages opens. See Figure 71.

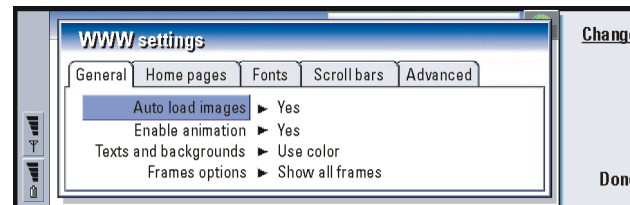


Figure 71

General page

Auto load images: The options are *Yes/No*. If you select *Yes* the WWW browser loads all the pictures on a Web page when it displays the Web page.

Enable animation: Determines whether animated pictures are animated or not. The options are *Yes/No*.

Texts and backgrounds: The options are *Use color/Use black and white*. Some Web pages use colors which make reading difficult, so you may prefer to make the setting *Use black and white*.

Frame options: The options are *Show all frames/Show frames one by one/Show links only/Do not use frames*. Some Web pages are split into several frames, which makes reading difficult, so choose an option which suits you.

Tip: See information on navigating in Web pages which contain frames in 'Change frame sizes' on page 187.

Home pages page

Home page address: Type in the location of your home page. The location can be a page on the Internet. You can also choose a file in the memory of the communicator.

Search page address: Type in the location of your search page.

Load at startup: Determines which Web page will open when you start the Web browser. The options are *Home page/Search page/None*.

Tip: In *Search page address*, you can enter the URL address for your favorite search engine or portal.

Fonts page

Standard font: Defines the default font used.

Fixed width font: Defines the fixed width font to use on certain Web pages.

Font size: Defines the default font size.

Scroll bars page

Horizontal scroll bar: The options are *Always on/Off/Automatic*.

Vertical scroll bar: The options are *Always on/Off/Automatic*.

Advanced page

Use cookies: Some Web pages store data on your communicator in files called 'cookies'. Use this setting to determine whether to accept cookies, and if you accept them, whether you wish to be prompted each time a cookie is stored. The options are *Always/ Never/ Ask*.

Cache size: When you view a page on the WWW, it is downloaded and stored in the communicator's cache memory. This saves you from downloading the page from the WWW each time you view the page, speeding the display of the page in the browser. Since storing Web pages consumes memory, you can select the amount of memory to use for the cache. The options are *Small/ Large*.

Empty cache on exit: If you select *Yes*, the cache memory is emptied when you exit the WWW browser. The options are *Yes/ No*.

● **NOTE** To view and empty the cache, press the Menu key and select *Tools > Information > Cache...*

● **NOTE** If you have tried to access or have accessed confidential information requiring passwords (for example, your bank account password), empty the cache after each use to maintain confidentiality.

Empty history on exit: If you select *Yes*, the history list is emptied when you exit the WWW browser. The options are *Yes/ No*.

Bookmarks

To open the Bookmarks view, press **Bookmarks** in the main view of the WWW application. See Figure 72.

The Bookmarks view lists links to WWW pages in related folders. You can organize, edit, and view these bookmarks. You can also search for them and then connect to the URL addresses directly. See Figure 72.

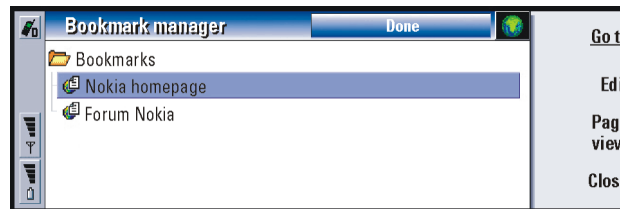


Figure 72

To retrieve the currently highlighted Web page, press **Go to**.

To open and close folders, press **Open folder** and **Close folder**.

To search for bookmarks, press the Menu key and select *Edit > Find*.

To edit the name or address of a bookmark, press **Edit**.

To return to the main view, press **Page view**.

Add a new bookmark

You can add a Web page, or a frame or link on a Web page, as a bookmark to your Bookmarks list.

Tip: When you scroll through the bookmarks, the full URL address of the currently selected bookmark is shown on top of the view.

Tip: To create and rename folders, press the Menu key and select *File > Folder > Create new folder* or *Rename folder*.

- 1 On an open Web page, press the Menu key and select *Bookmarks > Add bookmark*, *Add frame as bookmark* or *Add link as bookmark*, depending on what you want to bookmark.
- 2 Edit the name and address of the bookmark, if necessary.
- 3 Press **OK**.

WAP

The WAP application can be used to access Internet services which are based on the Wireless Application Protocol (WAP). These services can contain news, weather reports, flight times, dictionaries, and so on.

● **Note:** The content of each service depends on the content provider of that service. To use such a service, follow the instructions provided by the content provider.

Obtain access to WAP services

- you must be within the coverage of a system which supports data calls,
- a data service must be activated for your SIM card,
- you must have obtained a WAP access point from a WAP service provider, and
- you must have entered the proper WAP settings.

Differences between the WWW and WAP services applications

The WAP application is similar to the WWW application, but there are two differences:

- To access WAP services you need to define WAP access points in your communicator. WAP access points are additional to the Internet settings. You can receive WAP access points directly via a short message from your WAP service provider, or define them manually. This chapter contains instructions for manual setup.
- Certain bookmarks can be accessed through a specific access point, for example, banking services may have to be accessed through the bank's own access point. The easiest way to use these kinds of services is to define an altogether new bookmark which uses the correct WAP and Internet access point.

Set up WAP connections

- **Note:** Before you can use the WAP services, you need to configure your WAP settings. Your WAP service provider will provide you with the exact values for the WAP settings. Follow the instructions carefully. You can use this information to define and edit the settings manually. Furthermore, your service provider may be able to send some, or all, of the required settings to you via a special short message, an Over The Air (OTA) message. After you have received the settings, you can start using the WAP application or edit the settings as described below.

Define and edit WAP connections

- 1 Press the Menu key and select *Tools > WAPaccess*. A dialog opens.
- 2 Press **New** to create a new connection, and **Edit** to edit an existing connection. A dialog opens. See Figure 73.

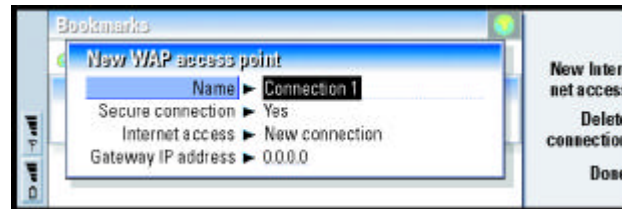


Figure 73

3 Press **Close** when you are ready.

Tip: The shortcut to define and edit WAP access points is Ctrl + Shift + X.

Name: Name of the connection. All your connections should have different names. You can define each name freely.

Secure connection: Whether the security protocol TLS is used for the connection. The options are *Yes/No*. Follow the instructions given to you by your WAP service provider. See also Glossary term 'Transport Layer Security' on page 346.

Note: Some secure connections use authentication procedures. If authentication fails, you may need to download some certification keys. Contact your WAP service provider for details.

Internet access: Choose from a selection list the IAP you wish to use for this connection. If you have no IAPs, you create a new one by pressing **New Internet access**. See page 175.

Gateway IP address: The IP address that the required WAP gateway uses.

Changing WAP access points

1 To change WAP access points, press the Menu key and select *Tools > WAPaccess*. A dialog opens.

- 2 Press **Change** to change the connection. A list opens.
- 3 Choose the connection from the list and press **OK**.

Bookmarks

The Bookmarks view is the main view of the WAP application. You can organize, edit, and view these bookmarks in the same way as WWW bookmarks, see page 191.

To add a bookmark, press the Menu key, then select *Bookmarks > Add bookmark*. A dialog opens. See Figure 74.

Tip: The shortcut to add a bookmark is Ctrl+B.



Figure 74

Note: A bookmark always uses the same connection defined in the *WAP access* field. To set up a WAP access point, see page 191.

To open a WAP page defined in a bookmark, select the bookmark, then press **Go to**.

To edit bookmark settings, select the bookmark, then press **Edit**.

To import or export bookmarks, press the Menu key, then select *Bookmarks > Import bookmarks* or *Export bookmarks*, respectively.

■ **Tip:** The shortcut to go to the home page is Ctrl+H.

■ **Tip:** The shortcut to open a URL is Ctrl+O.

Navigate WAP services

There are three ways to open a WAP page, either:

- Choose a WAP bookmark from the list of bookmarks and press **Go to**. The page is retrieved; or
- Go to the WAP application home page. Press the Menu key, then select *Goto > Home page*. For more information on defining the WAP home page, see 'WAP settings' on page 196; or
- Open a URL; press the Menu key, then select *File > Open page*. A dialog opens. Enter the address of the URL, for example: **www.nokia.com**.

Once the WAP page is opened, use the ^ and v arrows on the Arrows key to scroll the view and to choose hyperlinks and hotspots.

● **Note:** Some servers have access restrictions that require a valid user name and password. In this case, you will be asked to type in the user name and password before a connection to the service can be established.

WAP settings

To define WAP service settings, press the Menu key and select *Tools > Settings*. A dialog with two pages opens.



Figure 75

Here you can change settings such as your WAP home page.

● **NOTE:** You can use a file on the communicator as your home page.

Java

The Java in the Nokia 9290 Communicator is a Personal Java application environment designed especially for the communicator. Java enables you to use Java applications downloaded from the Internet.

Java Software Development Kit (SDK) is available in Forum Nokia.

