



'MOBILE 100/200 REFLEXES' DESKTOP DOWNLOADER



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Precautions for use

Generalities

This programming tool is specifically designed for the Alcatel 'Mobile 100/200 Reflexes' range of handsets. It makes it possible to upgrade the handset's software or customize its logo-screen. The operation has to be carried out by technical people for whom this user guide is dedicated; please read it carefully before proceeding to any programming.

This product includes a basic PC application which is delivered as part of the tool. This software may be subject to modification or evolution without notice; please contact your Alcatel's retailer or support organisation to be sure to use the latest version.

Downloading a file on a 'Mobile 100/200 Reflexes' DECT handset:

Although the tool and the application provide different mechanisms to ensure the reliability and the safety of the operation, it is recommended to avoid any brutal interruption of the programming which may occur in one of the following cases:

- the battery of the 'Mobile 100/200 Reflexes' has not a sufficient level of charge
- the handset is taken out of the download unit, or the transmission cable is withdrawn from the PC port, or the PC is switched Off, ... although the active phase of the programming is not finished

Conditions of use:

The following conditions must be respected:

Do not expose the handset or the desktop downloader to severe conditions (rain, sea air, dust, etc.).

The correct operation is not guaranteed in temperatures outside the range -10°C to +45°C.

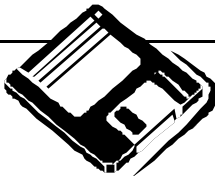
You must not switch on or use your handset or the desktop download near gas or inflammable liquids.

1. WELCOME TO THE DESKTOP DOWNLOADER

This product guide provides instructions that describe how to install the download application on your computer and how to operate a software downloading onto the '**Mobile 100/200 Reflexes**' handsets.

1.1 Delivered items

Basic package ("Desktop downloader")

Desktop downloader <i>This device features:</i> 1. a support with: • a recess for the handset • a green LED (mains power ON) • two + /- buttons (unused) 2. a cable ended with a DB9 connector (connection to a PC serial port) Note: the device does not ensure the charging of the handset's battery.	
Application Disk The download softwares are delivered on a 3.5" diskette: • application files: download.exe and djump.dl • logos • this product user guide	

AC/DC adapter for Mobile Reflexes

AC/DC Mains Adapter The mains adapter is delivered within a separate package which has to be ordered separately: (there exists several references adapted to different countries). The mains AC/DC adapter must be connected to the desktop downloader via the RJ plug. <i>Characteristics (Europe model):</i> • Input : 230 V – 50 Hz • Output : 12 V DC – 500 mA	 <i>The mains power socket must be close to the downloader unit and easily accessible, so that it can be used as an "on/off" facility.</i>
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1.2 Other requirements

The desktop downloader is driven by a download application running on a Personal Computer. The PC requirements for this application are as follows:

- Pentium class 90MHz or higher
- Windows NT 4.0 or Windows 95/98, and Windows XP starting at download application release 7.2 or higher
- 1 free serial port (DB9 connector)

2. INSTALLING THE DOWNLOAD APPLICATION

To install the software, follow these steps:

1. Turn on your computer
2. Start the Windows Explorer program and create a new directory on your hard disk (e.g. "C:\Downl_Mob").
3. Insert the installation diskette into your floppy drive
4. Copy the 2 application files present in the diskette ("**download.exe**", "**djump.dl**") on the new directory of your hard disk.
5. As for any executable file, you can use the Windows shortcut facility to create a program icon and place it on your desktop environment. This operation will facilitate the start up of the application.

Note: it is recommended to create additional sub-directories in order to store separately the different types of download files :binary files for the Mobile 100 Reflexes model, binary files for the Mobile 200 Reflexes model, bitmap files for the logo screen).

Example of directory structure:

C:\Downl_Mob\Binaries\M100\ (folder for 'Mobile 100 Reflexes' files)

C:\Downl_Mob\Binaries\M200\ (folder for 'Mobile 200 Reflexes' files)

C:\Downl_Mob\Logos\ (folder for customised logo files)

Important note:

if the download application has to be installed on several PCs, it is recommended to use the original installation diskette. It is however possible to take directly the files from one PC to another one, provided that only the two "download.exe" and "djump.dl" program files are copied on the target machine: **the extra file "dwld.h5g" is specific to each PC and needs to be automatically generated at the first start up of the application (see 3.2).**

3. RUNNING THE DOWNLOAD APPLICATION

3.1 Generalities: start, exit

The following steps are necessary to start the Download application:

1.
 - Switch on the PC
 - Connect the desktop downloader to the mains supply (green LED ON)
 - Connect the DB9 connector of the desktop downloader to the PC serial port
2. Prepare the 'Mobile 100/200 Reflexes' for the downloading:
 - **the handset must be imperatively switched Off**
 - **the handset must be equipped with a battery normally charged. Remember that the 'Mobile 100 Reflexes' operates with the Ni-Mh battery only, while the 'Mobile 200 Reflexes' operates with the Li-Ion battery only**
3.
 - Insert the handset on the desktop downloader (place it correctly on the unit by pushing it downwards until you hear the locking mechanism is engaged).

Note: after the handset has been placed on the desktop, its green LED remains Off and its screen remains blank, meaning that all is OK for the downloading.

If the LED turns to On or the battery icon appears on the screen, take the terminal out of the downloader and insert it again. If necessary, repeat the operation until you reach the normal state.

4.
 - Start the download program by double-clicking the shortcut icon or from the file manager application (Windows Explorer). After some seconds, you will get the main Download window with a status indication **'Ready to run'** or **'Please insert handset'**

If "Please insert handset" remains on the PC, take the terminal out of the downloader and repeat the step 3 described here above. If this is not sufficient, try again after unplugging / plugging the handset's battery and check the cable connection between the PC and the downloader.

To leave the application:

Case 1. **If no handset is placed on the desktop downloader:**

- "Please insert handset" is displayed on the PC
- Close simply the application from the main window ("General" sub-menu, "Exit" command)

Case 2. **If a handset is still present on the desktop downloader:**

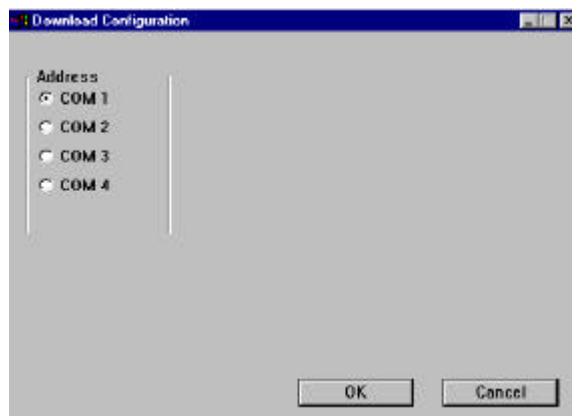
- If the read / write operation is over, the battery icon is normally displayed on the terminal. Close simply the application from the main menu window ("General", "Exit" ..)
- If the programming (read / write operation) is not completed, wait until the battery icon and the "please insert handset" are displayed and then, use the "Exit" command.
- If the PC displays "Ready to run" but you want to leave the application without starting any programming, use the "Reinitialize" command in the "General" menu before selecting the "Exit" function. Do not use the x icon to exit the application (it has not the same effect as the "Exit" function).

Note: if the PC application is not closed properly while a handset is placed in the programming unit, it can result that the handset cannot be switched On again with the On/Off key. Should this occur, remove simply the battery pack and replace it on the handset to recover a normal operation.

3.2 First start up

When the download application is run for the first time on the PC, the setup window ("Download Configuration") is automatically prompted in order to let you configure the appropriate serial port.

1.



2. Once the convenient port number is selected, click OK. This configuration choice will then be automatically memorised (a specific file "**dwld.h5g**" is created and stored in the working directory).

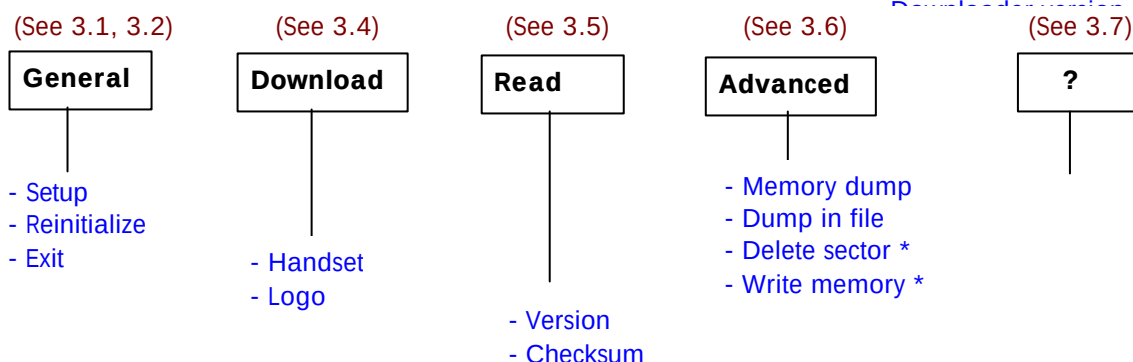
Notes:

- after the configuration file "dwld.h5g" has been created, it remains however possible to modify the com port configuration, by selecting the "setup" function in the application "General" menu.
- warning: the SW will not start (and no error message will be displayed) if the port normally allocated to the download application is already in use by another program.

3.3 Menu organisation

Note: most of the application commands can only be run in on-line mode, when the link between the 'Mobile 100/200 Reflexes' and the PC is correctly initialised; this state is signalled by the "Ready to run" indication on the main window.

The menu organisation for the different commands is the following:



Note: * "Delete sector" and "Write memory" functions are password-protected

3.4 Downloading function (Handset, Logo)

Downloading a 'Mobile 100/200 Reflexes' can be necessary to upgrade its software with a more recent version provided by Alcatel. It is also possible to download a personal bitmap file into the terminal, simply to customise the logo screen.

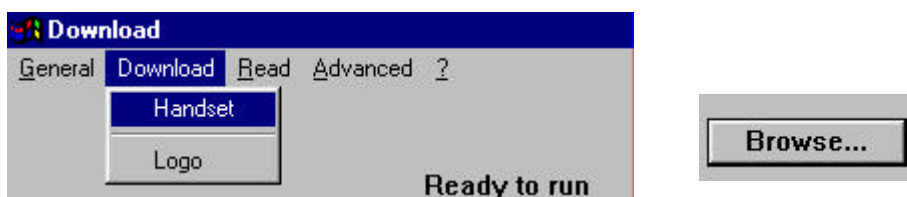
In order to save time, specially when numerous handsets must be downloaded, a **"Several handsets"** function allows to carry out repetitive and automatic downloads. In this mode, the selected file transfer is restarted just by placing a handset in the desktop downloader.

The download has to respect the following steps. In case of any problem or error message during this operation, please refer to the further section 4 (Trouble shooting).

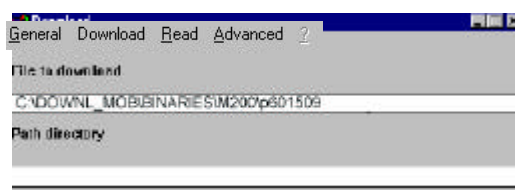
1.
 - Connect the desktop downloader to the mains supply (green LED ON)
 - Switch On the PC and connect the downloader's DB9 plug on its serial port
2.
 - Insert a 'Mobile 100/200 Reflexes' on the desktop downloader ; place it correctly on the unit by pushing it downwards (until you hear the locking mechanism is engaged).

Note: the handset must be switched off before placing it on the desktop downloader and its battery must have a normal charge level.

3.
 - Start the download program and wait for the **"Ready to run"** status in the main window
 - Select the download function (**"Handset"** or **"Logo"**) from the "Download" sub-menu
 - Click the **"Browse"** button to reach the appropriate directory



4.
 - Select the file to be downloaded (refer to section 4.1 in case of any doubt). Double-click or press the **"open"** button :the complete file path is then automatically inserted into the **"File to download"** window.



5. **According to the type of operation requested, follow either step 5a or 5b**

5.a. : Individual programming :

- Press the **"One handset"** or **"One logo"** button to start the downloading. During the file transfer duration (a few seconds for a logo, around one minute for a phone software), a progression bar is displayed. When the download is over and successful, the message **"Operation completed successfully"** is prompted on the PC.
- Press the **"OK"** button. **Wait until the terminal's green LED turns to ON before taking it out of the downloader**
- Proceed to a new programming (same or other phone set) or select another function or close the application.

5b. Chained programming (repeating the same file transfer on several terminals)

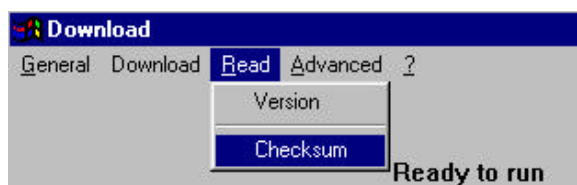
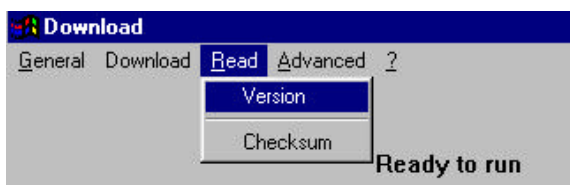
- Press the **“Several handsets”** or **“Several logos”** button to start the transfer. When the download is over and successful, the message **“Automatic ... Please insert the next mobile”** is prompted and the terminal's green LED is turned to ON.

Take the treated terminal out of the desktop downloader and insert a new one on the unit : the file transfer for the new mobile is then automatically restarted. Repeat this operation as many times until all the terminals are treated.

Note In Automatic logo download, a warning may be displayed, that can be discarded.

3.5 Read function (reading out the mobile's SW version and checksum)

Selecting the **“Read”** function, the SW version number of the 'Mobile 100/200 Reflexes' and the corresponding checksums can be displayed. An example of screens is given below :



SOFTWARE IDENTIFICATION:	HARDWARE IDENTIFICATION:
TYPE OF PRODUCT:	RADIO TYPE:
60	00: Philips Europe
PLATF VERSION:	FLASH TYPE :
36 [00]	0x00 0x04 0x22 0xBA
APPLI VERSION :	Fujitsu
24 [00]	MBM29LV400BC

```

Checksum GLOBAL :
                    01 5C 9B 07

Checksum ID01 ROM :
                    00 0C C7 5F

Checksum BOOT FLASH :
                    00 04 CF 48
    
```

Notes:

| a complete hardware version is identified by Type of product :

- **60**= Mobile **200** Reflexes,
- **70**= Mobile **100** Reflexes

and radio type :

- Philips Europe
- Alps (Europe)
- Philips China
- Philips South America
- Philips 2 chips Europe
- Philips 2 chips China
- Philips 2 chips South America)

| a complete software version is identified by the two sub-part numbers (**“PLATForm”** and **“APPLIcation”**).

| there are two download files named:

- **m17x[platform version][appli version]**
- **m26x[p[platform version][appli version]**

respectively for Mobile **100** Reflexes and Mobile **200** Reflexes. The 'Mobile 100 Reflexes' file is not compatible with the hardware of a 'Mobile 200 Reflexes' and vice-versa (see section 4.1)

| Example of correct SW read out : 60 36 24 (numbers into brackets are not relevant)

3.6 Advanced functions (memory dump / write)

The functions included in this menu are reserved for advanced maintenance under the supervision of the Alcatel's Technical Support Dept. The **'Delete sector'** and **'Write memory'** functions are password-controlled to prevent uncontrolled activations which could damage the terminal's operation.

3.7 About function (reading the version number of the application)

Selecting the "?" function from the general menu, the version number of the download application is displayed.

4. TROUBLE SHOOTING

4.1 Nature of the download files



downloadable files 'Mobile 100/200 Reflexes':

- the software files for the 'Mobile 100/200 Reflexes' mobile are provided under Alcatel's control.
- for a same release version, there are two different program files, one for each model.
If the wrong type of software is selected, the download operation will display a specific **"Wrong software"** error message.
- logo files are standard bitmap images used for the end-user customisation. Although some examples of logo files can be included within the installation diskette, customized files are normally not provided by Alcatel.
- logo files can be built with any standard draw application (Paint, Corel,...). The same file can be loaded indistinctly on a 'Mobile 100 Reflexes' or a 'Mobile 200 Reflexes' provided the following format is respected:
 - file extension (suffix): **bmp**
 - file size: **518 Bytes**
 - Number of colours: **2 (black and white)**
 - Size (pixels): **96 x 38**

If a wrong file type or format is selected, the application will detect it and refuse to start the file transfer.

4.2 Problems and error messages

Kind of problem or error message	Symptoms	Possible cause- corrective actions
! The application has been launched and a terminal has been inserted in the desktop downloader, however the message "Please insert handset" is always displayed on the PC window ...	! the LED on the desktop downloader is OFF (it should be steady Green)	! The desktop downloader is not powered: check the AC/ DC adapter is correctly connected to the mains.
	! On the handset, the LED turns to ON or the battery icon appears on the screen (initial state before downloading must be all OFF)	! The handset is not switched OFF: switch the terminal OFF and then insert it again in the downloader ! The handset is not well plugged on the downloader or the connection did not initialise correctly: take the terminal out of the downloader and insert it again. Repeat the unplug / plug operation several times if necessary. ! The handset is not correctly initialised: unplug / plug its battery.
	! LEDs status is correct (GREEN on the desktop downloader and OFF on the handset)	! Check the cable connection between the PC and the desktop downloader ! A wrong serial port is maybe selected on the PC or the port selected can already be used by another application: change the port number (see 3.2) or close the foreign application accordingly. ! The handset is not correctly initialized: unplug / plug its battery ! It may be a PC problem, reboot the PC ! The desktop downloader may be connected on the wrong serial port, an error window is displayed, the configuration must be changed before error acknowledgment.

Kind of problem or error message	Symptoms	Possible cause- corrective actions
! The application is automatically closed when a handset is put on the desktop downloader		! check the terminal's battery: it must be normally charged and be of the right model (Ni-Mh for the 'Mobile 100 Reflexes' or Li-Ion for the 'Mobile 200 Reflexes').
! The Logo file selected cannot be charged in the handset	! Different type of error messages can be presented ...	! a file with a wrong format or wrong size has been selected (see 4.1)
! A Logo file was downloaded successfully but the corresponding picture does not appear on the handset		The logo screen is designed to be displayed when all the following conditions are met on the handset : ! it is placed within a covered area of the fixed system ! it has remained in idle situation during the last minute (inactivity timer) ! the logo option has not been disabled in the user menu ("screen saver" function)
! After a download operation, the handset cannot be switched ON	! The file transfer had been signalled as successful	! The handset has been taken out of the desktop downloader before the complete end of the transfer session: unplug / plug the handset's battery and switch the handset on.
! The download aborts before the end of the transfer ! An error message is displayed at the end of the file transfer ! The handset cannot be restarted after a file transfer	! Different type of error messages can be presented ...	! Check the file selected for the transfer is correct ! Unplug / plug the handset's battery and repeat the complete download operation

5. WARRANTY

Independently of the legal warranty that covers this appliance, it is guaranteed for 1 year, parts and labour, counting from the date indicated on your invoice.

Nevertheless, if the legal warranty in effect in your country exceeds 1 year, then the legal warranty is the sole warranty applicable.

The invoice will be demanded if making a claim under the warranty. The warranty does not however apply in the following cases:

in the event of use that does not comply with the instructions given in this user's manual, faults or damage caused by natural wear, damage resulting from a cause external to the appliance (e.g. impact, fall, exposure to dampness, etc.), non compliant installation or modifications or repairs carried out by persons who are not approved by the manufacturer or retailer.

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