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System Requirements

Chipy is a registered trademark of the Becker & Partner GmbH, Aachen.

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All control programs for Chipy are run in a graphical environment. For using Chipy, you first have to install the following licensed programs:

- MS-DOS in a version suitable for for Microsoft Windows 3.1x, or any other disk operating system suitable for Microsoft Windows 3.1x and Windows version 3.1x

or

- Microsoft Windows 95

or

- Microsoft Windows NT Version 4.0

IBM-compatible PC, at least 520kB of free conventional memory, 386 CPU or higher

Free com port (RS-232)

VGA graphic adaptor / mouse

Microsoft Windows®, version 3.1 or higher

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General Information

This software provides you with tools for editing your mobile phone card via the PC as well as for utilizing and processing the contents of various other chip cards.

The data of mobile phone cards may be edited online, i.e. with the card plugged in, offline, i.e. without a card plugged.

Several storage options are available besides data exchange with the mobile phone card: import and export , of text files suitable for database files, output to LOG-files and the usual file operations (save, open).

The software may be operated via the mouse or the keyboard.. The most important functions (like read/write card) can be accessed directly through buttons on the program surface, without using the menu options.

The help function of the Chipy software branches for the environments GSM or C-Tel, analogous to the program surface selected. The content of the menus varies depending on the cards structure. Therefore please choose the environment desired at the corresponding point.

Important note:

During the hardware installation of the card reader, problems with the [serial port](#) might occur. Most of these are caused by address conflicts or wrong assignments, sometimes by an insufficient power supply of incompatible ports (mainly a problem of notebooks) . Therefore please check the BIOS settings of your ports for existing conflicts (Switch off event control and power management) For some incompatible ports you might need a power supply adaptor which is available as an accessory.

Problems might also be caused by DOS-drivers with direct access to the port or by misconfigurations of the serial ports in the graphical user interface caused by certain fax or data communications programs.

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[The KeyCard](#)

If you are using another chipy card reader instead of Chipy (such as X13, GCR400, or -500), you need a KeyCard to use that card reader with the Chipy software.

The KeyCard is a processor controlled chip card with internal memory. The KeyCard offers the following features:

- PIN-application (numerical or alphanumerical)
- card access protected by DES-algorithm
- save PIN
- read PIN
- edit PIN
- memory area completely editable
- protection mechanism similiar to that of the German money card
 - all data relevant for security is encrypted during the transmission between software and chip
 - card by the DES-algorithm

If the software is used with one of the card readers mentione dabove, it is necessary to plug in the KeyCard once every time the program is started. It is of course possible to use the KeyCard and all of its features with any Chipy terminal.

Your KeyCard is protected by a PIN (Personal Identification Number), to make sure that it cannot be misused by a third party. Please enter your PIN when you are asked for it and confirm the input.

The KeyCard Environment:

By plugging in the KeyCard you are granted access to the folders Data and Info. The folder Data is used for storing important information such as secret numbers and access codes, wheras the folder Info provides a memory area of 192 characters.

After the KeyCard has been read for the first time, you can adjust the PIN according to your personal demands via the menu **Change PIN**. Enter the old PIN first and then twice the new PIN. The PIN may be numerical or alphanumerical, but has to consist of at least four characters.

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The User Interface

The Chipy software is available in two versions. It is part of the delivery content of the Chipy terminals, but it can also be ordered separately as an operating software for other terminals.

If the software is used in connection with a Chipy terminal, it will start directly with the GSM environment. If the software is used in connection with a X13, GCR400 or -500, it is necessary to plug in the [KeyCard](#) of this software version before the program is started.

The GSM Environment:

The Chipy software starts in the GSM environment. It is divided into the folders Phone Book, Short Message Service SMS and Preferred Networks. Plugging in a GSM-card will automatically adopt the GSM environment to the features of the card that has been inserted. Depending on the card generation and configuration, the following folders are available:

- abbreviated dialling numbers (ADN) Phase 1 / 2 / 2+
- fixed dialling numbers (FDN) Phase 2 / 2+
- multiple subscriber identification numbers (MDN) Phase 1 / 2 / 2+
- barred dialling numbers (BDN) Phase 2+
- service dialling numbers (SDN) Phase 2+

Additionally the button Internationalize Phone Numbers is available, which puts the international country code and the internationally valid sign +” for the access code in front of the phone number.

The C-Tel Environment:

If a German C-Tel card is plugged into the terminal, the menu option Card will be activated and the program will branch to the C-Tel environment. The menu Card and the folder Phone Book will vary according to the features of the C-Tel card.

In contrast to the GSM environment, the C-Tel environment offers the button **CUG (Closed User Group)**, which limits the phone numbers that can be dialled to the CUG-Numbers.

Other Chip Cards:

If another chip card instead of a mobile phone card is plugged, the Chipy™ software will switch off the menu option Card and activate the [menu Card Info](#).

The range of this menu depends on the features of the connected terminal.

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Program Info

Besides a data file, the Chipy software will install the following files into the program directory selected during the setup routine:

File Name	Function
INFO.BMP	Bitmap for the Start and Info Screen
CHIPY.EXE	Programm File
UNINSTALL.*	Uninstall Files
CHIPY_*.HLP	Help texts in various languages
*.LNG	Program Files in Various Languages
*.DLL	Program Libraries
INFO_*.TXT	Texts for the Startup Screen in Various Languages
*.WRI	Setup Info in Various Languages

The CHIPY.INI File

In addition to the files mentioned above, the Chipy installation will copy the file CHIPY.INI into the Windows directory. This file for program initialization consists of the categories [OPTIONS], [LANGUAGE] and [EXPORT] and is necessary for starting the program.

The category [OPTIONS] contains all data necessary for defining the program environment. These are installation path, selected com port and the program options chosen.

The category [LANGUAGE] lists up the program languages possible together with all files necessary for use.

[EXPORT] defines the filed separator for the export function of the phone book and the export for printing. This entry also serves as a decimal separator for the export to a QIF-file.

Entries in the Windows 95 / NT Registry

Installing the Chipy software will create the following entries in the Windows registry:

HKEY_CLASSES_ROOT

- > ChipyAdnFile
- > ChipyBdnFile
- > ChipyCdnFile
- > ChipyFdnFile
- > ChipyMdnFile
- > ChipyNetFile
- > ChipyPnrFile
- > ChipyPrnFile
- > ChipySdnFile
- > ChipySimFile

- > ChipySmsFile
- HKEY_LOCAL_MACHINE
 - > SOFTWARE
 - > Microsoft
 - > Windows
 - > Current Version
 - > Uninstall
 - > Chipy

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The Icon Bar

The most important functions of Chipy can be accessed via the menus and also by using special buttons.



Function: **Read** data from SIM-card
The button is inactive because the SIM-card is not plugged in



Function: **Write** data to SIM-card
The button is inactive because the SIM-card is not plugged in.



Function: **Read** data from SIM-card
Watch out: the red arrow inside the button indicates that the data relevant for this program area has not been read yet.



Function: **Read** data from SIM-card



Function: **Write** data to SIM-card

Function: **Read** file from a PC-drive

Function: **Write** to a PC-drive



Function: **Internationalize dial. numbers**



Function: **Sort by Name**

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Menu File

The **Menu File** includes all functions for editing the card. It can be used to write and edit to and from the memory areas of the SIM card or to store data to a data carrier.

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- [Dialog Write file](#)
- [Dialog Merge file](#)
- [Dialog Edit for printing](#)
- [Dialog Import phonebook](#)
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- [Send LOG-File to Quicken](#)
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- [Dialog Exit](#)

[Dialog Read card](#)

The dialog **Read card** from the **Menu Card** causes the program to read in the content of the SIM card to the opened folder. It might be necessary to enter the pin to **read** the card.

The dialog **Read card** corresponds to this button:



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[Menu Card](#)

[Dialog Write card](#)

The dialog **Write card** from the **Menu Card** causes the program to write the content of the opened folder to the SIM card. It might be necessary to enter the PIN to **write** to the card if it has not been entered until then.

The dialog **Write card** corresponds to this button:



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[Menu Card](#)

[Dialog Merge card](#)

The dialog **Merge card** from the **Menu Card** causes the program to add the content of the opened folder to the data already stored on the SIM card. It might be necessary to enter the PIN to **merge a card** if it has not been entered until then.

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[Menu Card](#)

[Dialog Read file](#)

The dialog **Read file** from the **Menu File** causes the program to read the data from a file already stored on the hard disk to the opened folder.

Important note: Files created with the Itineris® Gestion software can also be read. The different format will be converted automatically.

The dialog **Read File** corresponds to this button:



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[Dialog Write File](#)

The dialog **Write file** from the **Menu File** causes the program to write the data from the opened folder to a data carrier. The file name may have up to eight characters. The extension for the file type is added automatically by the program.

The dialog **Write file** corresponds to this button:

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[Menu File](#)

[Dialog Merge file](#)

The dialog **Merge file** from the **Menu File** causes the program to add the data from the opened folder to a file already stored.

Important note: Files created with the Itineris® Gestion software can also be read. The different format will be converted automatically.

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[Menu File](#)

[Dialog Edit for printing](#)

The dialog **Edit for printing** from the **Menu File** causes the program to open a text editor which can be used to print the data of the opened folder in a formatted form. This function may not be confused with the dialog [Import phonebook/Export](#).

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[Dialog Import phonebook](#)

The dialog **Import phonebook** from the **Menu File** makes it possible to import existing databases to the folder **phonebook**. This function works best if the data to be imported is in MS text format [*.TXT]. The separators between the records should be adjusted appropriately in the [Dialog Program options](#).

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[Menu File](#)

[Dialog Export phonebook](#)

The dialog **Export phonebook** from the **Menu File** makes it possible to export data from the folder **phonebook** as database files in the MS text format [*.TXT]. The separators between the records to be exported should be adjusted appropriately in the [Dialog Program options](#).

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[Menu File](#)

[Send LOG-File to Quicken](#)

The dialog **Send LOG-File to Quicken** from the **Menu File** makes it possible to export the contents from the PayCard LOG-File to a file in Quicken Interchange Format (QIF).

Numerous programs for financial management offer this format as an option for import or export.

This QIF-file is stored together with its date of creation to the Chipy installation directory.

Remark: Depending on the target application it may be necessary to use other decimal separators in the the QIF export file than the default ones.

Allowed separators are [.] or [,]. The default settings can be adjusted to special demands in the file CHIPY.INI in the windows directory.

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[Dialog Backup](#)

The function **Backup** reads the complete content of the SIM card's memory and stores it to a data carrier. The affiliated backup description is stored in a file [*.SIM], for which the name (up to eight characters) and path can be chosen freely. If an opened data file has already been edited, a dialog will appear, asking the user to store the edited data.

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[Menu File](#)

[Dialog Restore](#)

The function **Restore** opens an existing backup description file [*.SIM] and writes the affiliated data back to a SIM-card. If an opened data file has already been edited, a dialog will appear, asking the user to store the edited data.

By the way: The functions Backup and **Restore** can also be used to easily duplicate complete SIM-card contents (provided the cards have the same memory allocation).

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[Menu File](#)

[Dialog Exit](#)

You can exit the program by using this function or the key combination **[ALT] + [F4]**.

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Menu Edit

The functions of the **Menu Edit** can be used to edit the entries in the folders **Phone book**, **SMS** and **Preferred Networks**.

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[Function Internationalize dial. numbers](#)

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[Function Cut](#)

The function **Cut** makes it possible to cut one or more entries highlighted before. The cut entries are copied to the clipboard. Entries are highlighted by placing the mouse pointer over them and clicking the left mouse button once. To highlight more than one entry keep the left mouse button pressed and move the mouse pointer over the desired entries.

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[Function Copy](#)

The function **Copy** is used to copy highlighted entries to the clipboard.
Proceed as described above for the function **Cut**.

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[Function Paste](#)

The function **Paste** is used to insert entries cut or copied before to the clipboard into a field that is highlighted.

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[Menu Edit](#)

[Function Delete](#)

The function **Delete** irrevocably removes highlighted entries from the opened folder.

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[Menu Edit](#)

[Function Sort by Name](#)

Calling up the function **Sort by name** sorts the entries in alphabetical order. Digits and special characters come first in alphabetical order. This function is at disposal only in the folder **Phone book**.

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[Function Internationalize dial. numbers](#)

The function **Internationalize dial. numbers** puts the international area code and the internationally used sign [+] for the access code in front of all phone numbers of the opened phone book folder, if the beginning of the number can be identified as a national area code. If the number can be identified by the access code as an international area code, this code will be exchanged against the sign [+].

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[Funktion Delete folder](#)

The function **Delete folder** removes the complete content of the **opened** folder.

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[Funktion Delete all](#)

The function **Delete all** removes the complete content of **all** folders.

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[Menu Edit](#)

[Function Environment](#)

The function **Environment** from the **Menu Edit** allows switching to the C-Tel Environment oder to reset the GSM-Folder.

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[Menu Card](#)

This dialog is used to read data from a card; write to it or to append data to information already stored on the card. This menu is also used to change, activate or deactivate the card's pin, or to **unlock** it using the PUK. With TwinBill-cards, you also have the possibility to switch between the environments.

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[Dialog Merge card](#)

[Dialog Write card](#)

[Dialog PIN](#)

[Change PIN](#)

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[Activate FDN](#)

[Deactivate FDN](#)

[Activate BDN](#)

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[Dialog Card Info](#)

Calling up the dialog **Card Info** will make Chipy read the memory profile of the SIM-card plugged in and display it.

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[Menu Card](#)

[Dialog PIN](#)

The dialog **PIN** is used to change, activate or deactivate the PIN (Personal Identification Number) of a SIM-Card. Please choose the appropriate dialog box.

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[Change PIN](#)

The dialog **Change PIN** is used to change the given PIN of the SIM-Card according to personal demands. Please enter the old PIN first and then the new PIN twice.

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[Activate PIN](#)

By activating the **PIN** the SIM-Card is protected against unauthorized access.

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[Menu Card](#)

[Deactivate PIN](#)

By deactivating the **PIN** the phone can be accessed without further authorization by the SIM-Card.

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[Unlock PIN](#)

If you have entered a wrong **PIN** three times you need the PUK to unlock the **PIN**.

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[Dialog PIN2](#)

The dialog **PIN2** is used to change, activate, deactivate, lock or unlock the PIN2 of a SIM-Card. Please choose the appropriate dialog box. **PIN2** and the functions related to it have to be released by your provider first.

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[Edit PIN2](#)

The dialog **Edit PIN2** is used to change the PIN2 according to your own wishes. Enter the old PIN2 first and then the new PIN2 two times.

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[Activate PIN2](#)

If you have activated the PIN2 the functions related to it are protected against unauthorized access.

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[Menu Card](#)

[Deactivate PIN2](#)

If you have deactivated the PIN2 the functions related to it are unprotected against unauthorized access.

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[Unlock PIN2](#)

After entering the wrong PIN2 three times you need the PUK2 and/or PUK (Personal Unlocking Key) to **unlock PIN2**.

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[Activate FDN](#)

If you want to lock the abbreviated dialling numbers of the SIM-card's phone book, thus restricting the user to a limited set of pre-defined phone numbers, you have to switch on the fixed dialling numbers. The records for fixed dialling numbers cannot be accessed via the phone anymore. You need to enter PIN2 to have an unlimited access to the phone again.

Watch out: This feature is available only on SIM-cards of the Phase 2.

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[Deactivate FDN](#)

Use this menu option to deactivate the fixed dialling numbers. This will unlock all abbreviated dialing numbers again.

Watch out: This feature is available only on SIM-cards of the Phase 2.

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[Menu Card](#)

[Activate BDN](#)

If you want to lock special dialling numbers of the SIM-card's phone book, you have to switch on the BND (Barred Dialling Numbers). The records for barred dialling numbers cannot be accessed via the phone anymore. To activate the BDNs you have to enter PIN2.

Watch out: This feature is available only on SIM-cards of the Phase 2+.

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[Deactivate BDN](#)

If you have deactivated the BDNs (Barred Dialling Numbers) the records in the folder BDN are available again. To deactivate the BDNs you have to enter PIN2.

Watch out: This feature is available only with SIM-cards of the Phase 2+.

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[Dialog Enter PIN](#)

After entering the valid PIN in this dialog, Chipy will no more ask for the PIN for the duration of the card access.

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[Menu Card](#)

[Dialog Switch environment](#)

Please put the number [1] in front of the PIN to switch to environment 1. With the entry [2] you switch to environment 2. If the PIN is not activated or it has already been entered during the actual session, this will switch the environment without PIN-confirmation. This dialog is relevant only with **TwinBill-Cards**.

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[Menu Card](#)

[Menu CardInfo](#)

The **Menu CardInfo** is used to get informations about different PayCards, CallingCards and the German KV-Card. It is possible to save the contents in a LOG-File or copy it to the clipboard.

If you are unable to chose a card from the menu selection, press **Automatic Selection**

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[Menu Options](#)

The menu **Options** is used to select the **serial port** (COM-Port). Additionally, the program options for reading and writing can be adjusted here.

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[Dialog Port](#)

Use this dialog to select the serial port (COM-Port) that Chipy is connected to. The message **Chipy is installed on this COM-Port** confirms that the Chipy hardware has been detected by the program. If Chipy is not detected at any of the four possible com ports you should check whether another software or another driver is using this port, thus blocking it (mouse driver, terminal software etc.).

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[Menu Options](#)

Dialog Program options

The dialog **Program Options** is used for special settings of Chipys data management. The folders inside this dialog are **Environment**, **Input** and **Card**.

Folder **Environment**:

The **Data Directory** points to the path where the software stores the card data read. This path can be defined freely but has to be made up in the form [Drive]:\[Target Directory].

Field Separators are chosen as defaults for data import and export.

The option Language is used to choose the **Program Language**.

Folder **Input**:

The input of arbitrary line numbers in the option **Protect Abbreviated GSM Dialling Numbers** will protect the referred ADNs in the folder Phone Book from being editable in the PC.

The option **Move Entries When Deleting/Inserting** facilitates the moving of blocks of phone numbers when inserting or deleting single lines.

The option **Internalization** will set the default values for the dialling codes specific for a country and for the function [Internationalize dial. numbers](#)

If the option **Show Networks as Display Abbreviations** is activated, the Preferred Networks will be shown in the form usual for smaller handy displays.

Folder **Card**:

By activating the option **Always Read Entire Card** the complete content of a plugged card will be read into the program memory. The option **Check PIN when Card is Recognized** will cause the program to demand the PIN input immediately after a PIN protected card is plugged in.

Provided that **Time Stamp** is activated (and a card is plugged in), it will create a LOG-file with date and time (time stamp function).

Furthermore, the standard behaviour for transferring new data to the SIM card is defined (**Overwrite** existing data or **Appending** to it)

The entries in the fields **PIN 1- and PIN 2-defaults** will serve as defaults for the corresponding PIN check.

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[Dialog Add new network](#)

The dialog **Add new network** is used to add one or more mobile phone networks to the [Folder Preferred networks](#). The new network is defined by entries for **country code**, **network code**, **country** and **name** of the network.

The data for country code and network code is already displayed by most mobile phones. Please contact the hotline of your network provider if this is not the case.

After adding a new network to the existing list of networks, Chipy will create a new file NETZE.ADD and store it to the Chipy directory. This file can be opened and edited with any text editor. While doing this you have to pay attention to the fact that there are field separators between the records. This separators are generated by using the key combination **[Alt]+[1]+[2]+[4]** or **[AltGr]+[|]**.

If Chipy finds a network that is not in the list of mobile phone networks (extended roaming agreements, newly set up networks), the dialog **New Network** will be opened. Please enter the country name and the name of the network. The program will then enter the new network to the list of networks.

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[Folder Phone book](#)

SIM-cards of the Phase II do have memory areas for phone numbers additional to the one for abbreviated dialing numbers. Each area can be accessed separately for reading and writing. At the moment, the following memory areas are available on Phase I / Phase II/IIplus cards:

Abbreviated Dialing Numbers - Phase 1 & 2

This memory area stores the abbreviated dialing numbers which can be called up via the phone book function of your mobile phone. Phase I and phase II cards differ from each other by the maximum number of characters that can be used for a name.

Fixed Dialing Numbers - Phase 2 only

The fixed dialing numbers make it possible to restrict the usage of the mobile phone. You can use the **Menu Card** to set up a PIN2 (Personal Identification Number) and restrict the usage of the handy to the fixed dialing numbers.

Multiple Subscriber Identification Number(s) - Phase 1 & 2

This memory area is used to store all numbers under which your handy is reachable. It is possible to store several numbers, but these settings do not really affect the number that is assigned to you. This memory area is for information purpose only.

Barred Dialling Number(s) - Phase 2+

The barred dialling numbers make it possible restrict the usage of dialnumbers. To save such barred dialling numbers to the card you must enter PIN2.

Service Dialling Number(s) - Phase 1 & 2

This memory area is used for service numbers of the network operators or the service providers.

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[Folder Short messages SMS](#)

Besides voice transmission, the mobile phone can also be used to transmit text messages with a length of up to 160 characters. These messages can be composed in the folder **SMS** (Short Message Service) and transferred to the SIM-card after that.

SMS are transmitted to the receiver via a service center run by the GSM operator, using the **Mobile Phone Number** of the receiver you have chosen.

As the message is stored by the SMS center for 48 hours, it will reach the receiver even when he/she is not logged in to any network at the moment.

You can find out the maximum number of short messages storable on your card by choosing the dialog **Card Profile**.

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[Folder Preferred networks](#)

In many countries, there are two or more GSM networks which might have different (roaming) charges. You can therefore select your favourites for the travels abroad from a list of mobile phone networks.

Put up your list of preferred networks (using drag & drop or double-clicking the list of networks) and transfer them to the SIM-card. If you are abroad, your handy automatically will first try to log in to the chosen network. If it fails to log in, it will ask you to choose a network manually.

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C-Tel Environment



Attention: The C-Tel Card is only available in Germany. Therefore the instructions for using the C-Tel Environment are only included in the German version of the manual.

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