

Contacts Manager+ for Symbian S60 (Series 60) Phones

v. 1.12

**Compatible with
Nokia 3230/3650/3660/6260/6600/6620/6630/6670/6680/6681/7610/7650,
N70, N90,
N-Gage™ and N-Gage QD, Siemens SX1, Sendo X,
and other Symbian S60 (Series 60) 1st and 2nd Edition phones**

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<http://www.agora.cz/>, <http://www.communicator.cz/>

With the *Contacts Manager+ for S60 (Series 60)* application, you can export/import contacts and group definitions from/to a Symbian S60 (Series 60) phone contacts database, using a textual file (CSV, TXT) with delimiters.

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Testing Version (Demo)

The unregistered version should be used only for trial testing. Its functionality is limited – it processes only 25 contacts.

Full Version

By registering, the trial version becomes the fully functional one. Enter your registration code in the *Options->Registration* field box. The information about ordering of registration codes can be found at the <http://www.communicator.cz/> website.

Application Working Window

After starting the program, the list of export files is displayed in the application working folder window. This list is empty when the application is run for the first time (no export file has been created yet). If the phone has an MMC card inserted, you can use two working folders - in the phone (*Application folder*), and on the memory card (*MMC app. folder*). Select the working folder by pressing *Browse* button or by moving joystick to the left or right. The third displayed 'folder' is the *Messages* folder. This window shows files attached to messages (or received by infrared or Bluetooth). In the case the phone has two message storage areas (in memory + on memory card) it shows files in both areas, merged into one list. Messages area can be used only for import – you cannot export to it.

Choose the file, move the cursor to it, and select the required operation either by pressing joystick or using *Options->File*.

Parameters of an exported file and its format can be set using *Options->Settings*.

Location of application folders where exported files can be stored is *C:\Cntmng* (in the phone memory) and *E:\Cntmng* (on MMC).

Export of Contacts

In the working folder of the selected target drive, press joystick or use *Options->File*. Select *Export database to* and confirm by pressing joystick or *Select* button. The dialog is displayed, in which you can either use the pre-selected filename (of the file that the cursor is on) – then the existing file will be overwritten, or change the name (this will keep the existing file untouched and save the file with a new name). If the folder is empty, the default filename is "Export.csv".

This will store data from the default contacts database into a text file with delimiters. Default export format is CSV file, with comma as a delimiter, and quotes as a text qualifier. CSV file parameters can be changed in the *Options->Settings* item.

As soon as the export is finished, you can send the file to another device (PC, PDA, etc) – just select the file and press joystick or *Options->File*, use *Send selected* and choose *E-mail*, *Bluetooth*, or *Infrared*. Format/protocol of the exported file is the same as in *Contacts Manager(+)* for *N92xx/9300/9500*, for *N7710*, or for *UIQ*.

A file in the Contacts Manager format can be imported into Symbian S60 (Series 60) phone, Nokia 92xx/9300/9500, Nokia 7710, Symbian UIQ phone, a spreadsheet or database application on PC, etc. Read more about import in further text ('Import' chapter).

File Sending/Deleting

By pressing joystick or *Options->File* on a selected file (= with cursor on it), the file can be sent to another device (*Send selected*) or deleted (*Delete selected*).

For deleting, you can also use the "C" key (not in Messages window).

Settings

By selecting *Options->Settings*, you can open settings, where you can set parameters and content of the exported file.

Settings can be (optionally) saved by the application closing.
Default (factory) settings are marked in **bold** in the list below.

Field separator – It can be either **comma** or *semicolon* (CSV format) or *tab* (TXT format).

Text qualifier – **Quotes**/*apostrophes/nothing* as a delimiter in CSV format (commas/semicolons delimited) can be used. TXT format (tabs delimited) usually doesn't use text qualifier.

Caution: Don't use the 'None' option in the text qualifier settings together with commas/semicolons delimiters unless you have good reason to do so. This qualifier option should be set only if 'Tab' is set as a delimiter.

End of line – As a line break, the **CR** (0x000D) character is set by default. Optionally, user can set *CR+LF* (0x000D 0x000A) as an end of line instead.

Line break within a field – If a field contains (in a formatted item) a line break, this line break is - according to the current settings – either **replaced by space**, exported as the *LF* (0x000A) character or as the textual escape sequence "n". As 'line break' in the source data is recognized any of the following formatting characters: LSEP (LINE SEPARATOR, 0x2028), PSEP (PARAGRAPH SEPARATOR, 0x2029), FF (FORM FEED, 0x000C), LF (LINE FEED, 0x000A), CR (CARRIAGE RETURN, 0x000D) or CR+LF (0x000D 0x000A).
Formatted items are: *Note*, formatted address (*Address/LABEL*), formatted name (*Name/FN*).

Export groups – You can determine whether *Groups definitions* will also be included into the result file (**Yes/No**).

Export thumbnail data – If you set *Yes*, the '*Picture*' field will contain whole thumbnail (embedded picture) data (JPEG format, Base64 encoding), setting **No** means that **only the 'TRUE' flag** (where acceptable) is written in this field.
If there is an image (greater picture) linked to the contact, the path to the image is always written in the '*Picture*' field.

More information about items exporting can be found in the 'Export' chapter.

Compressing the database

If you need to compress primary contacts database, you can use the "Compact database" command (*Options->Compact database*).

Closing the Application

The application is closed by selecting *Options->Exit*.

Exported File – the Format and the Structure

As a result of export, you will get delimited textual file with data ordered into 68, or respectively 75 “columns” (v. 1.12 for S60, 1st, or respectively 2nd Edition). Delimiters are either commas or semicolons (CSV format) or tabs (TXT format) depending on your current settings. Unicode coding is used.

Exported “table” has three leading rows. First of them contains file format identifiers and must not be changed because if it is missing or changed, the file cannot be imported back. The second row contains column headers that are very important for cells data identity – always keep these numerical identifiers untouched. The third row contains descriptions of numerical identifiers in the second row – user can freely modify (edit, translate) these descriptions in the third row. They are important for user (as data comments), not for program itself or its data.

Since the file format is CSV, you have to determine its parameters (field separator, text qualifier, end-of-line character, line-break character). You can also set, whether exported file will contain only contacts or also group definitions, and whether thumbnail (contact picture) data will be exported. For more details, see ‘Settings’ chapter.

Columns Headers and Their Order (v. 1.12 for S60):

<i>Numbering</i>	<i>Header</i>	<i>Info</i>	<i>Exclusivity</i>
0000	ID	Unique ID of the contact card	
1100	Last name	Family name subfield of the Name field	Single
1200	First name	Given name subfield of the Name field	Single
2006	Birthday *)	Birthday field	Single
2007	Birthday - desc.	User string in the Birthday field if it is renamed	
2100	Ringing tone	Path and filename of the contact’s individual ringing tone	Single
6000	Company	Organization name field	Single
6100	Job title	Job title field	Multi
1700	Nickname **)	Nickname field	Single
4000	Tel	Tel field	Multi
4002	Tel (Business)	Tel field with property	Multi
4003	Tel (Home)	Tel field with property	Multi
4006	Other Tel	Tel field renamed with user string	Multi
4007	Other Tel - desc.	User string in the Tel field if it is renamed	
4100	Tel GSM	Tel GSM field	Multi
4102	Tel GSM (Business)	Tel GSM field with property	Multi
4103	Tel GSM (Home)	Tel GSM field with property	Multi
4106	Other Tel GSM	Tel GSM field renamed with user string	Multi
4107	Other Tel GSM - desc.	User string in the Tel GSM field if it is renamed	
4900	Video call **)	Video call field	Multi
4900	Video call (Business) **)	Video call field with property	Multi
4900	Video call (Home) **)	Video call field with property	Multi
4900	Other Video call **)	Video call field renamed with user string	Multi
4900	Other Video call – desc. **)	User string in the Video call field if it is renamed	
4200	Pager	Pager field	Multi
4206	Other Pager	Pager field renamed with user string	Multi
4207	Other Pager - desc.	User string in the Pager field if it is renamed	
4300	Fax	Fax field	Multi
4302	Fax (Business)	Fax field with property	Multi
4303	Fax (Home)	Fax field with property	Multi
4306	Other Fax	Fax field renamed with user string	Multi
4307	Other Fax desc.	User string in the Fax field if it is renamed	
4500	Mail	Mail field	Multi
4502	Mail (Business)	Mail field with property	Multi
4503	Mail (Home)	Mail field with property	Multi
4506	Other Mail	Mail field renamed with user string	Multi

4507	Other Mail desc.	User string in the Mail field if it is renamed	
8000	WV User ID **)	WV User ID field	Single
4700	URL	URL field	Multi
4702	URL (Business)	URL field with property	Multi
4703	URL (Home)	URL field with property	Multi
4706	Other URL	URL field renamed with user string	Multi
4707	Other URL desc.	User string in the URL field if it is renamed	
4800	DTMF	DTMF field	Multi
4806	Other DTMF	DTMF field renamed with user string	Multi
4807	Other DTMF desc.	User string in the DTMF field if it is renamed	
3100	P.O. Box	P.O. Box subfield of Address field	Single
3200	Extension	Extension subfield of Address field	Single
3300	Street	Street subfield of Address field	Single
3600	ZIP/Postal code	ZIP/Postal code subfield of Address field	Single
3400	City	City subfield of Address field	Single
3500	State/Province	State/Province subfield of Address field	Single
3700	Country/Region	Country/Region subfield of Address field	Single
3102	P.O. Box (Business)	P.O. Box subfield of Business address field	Single
3202	Extension (Business)	Extension subfield of Business address field	Single
3302	Street (Business)	Street subfield of Business address field	Single
3602	ZIP/Postal code (Business)	ZIP/Postal code subfield of Business address field	Single
3402	City (Business)	City subfield of Business address field	Single
3502	State/Province (Business)	State/Province subfield of Business address field	Single
3702	Country/Region (Business)	Country/Region subfield of Business address field	Single
3103	P.O. Box (Home)	P.O. Box subfield of Home address field	Single
3203	Extension (Home)	Extension subfield of Home address field	Single
3303	Street (Home)	Street subfield of Home address field	Single
3603	ZIP/Postal code (Home)	ZIP/Postal code subfield of Home address field	Single
3403	City (Home)	City subfield of Home address field	Single
3503	State/Province (Home)	State/Province subfield of Home address field	Single
3703	Country/Region (Home)	Country/Region subfield of Home address field	Single
1900	Picture	Contact picture field	Single
7000	Note	Note field	Multi
7006	Other Note	Note field renamed with user string	Multi
7007	Other Note desc.	User string in the Note field if it is renamed	
0300	Member	ID of groups that the contact belongs to	Multi
9906	Misc.	Various conceded, hidden and special fields and items	
9999	Misc. - type	Property/type/subtype tag to specify type of „Mics.“ item	
9907	Misc. desc.	User string in the field „Misc.“ if it is renamed	

*) Date from the *BirthDay* field is exported into the table in the format DD.MM.YYYY – regardless the 'regional settings' of the phone and PC. Same format is expected also by import; if the format of the 'BirthDay' field in the source CSV/TXT file is other than specified, or its content is incorrect, data is written in the textual form in the *Note* field.

**) The *Nickname*, *WV User ID*, and *Video call* (variants) fields have their own columns, in the exported file, only with the S60 2nd Edition application version. With the S60 1st Edition application version, they are exported into the 'Misc.' columns.

Note:

The three following field types are not visible in the contacts card, but they can be stored in the database (as *hidden* fields). If they contain valid data in the contact card, they are exported into the 'Misc.' column:

1300	Middle name	Additional name subfield of Name field	Single
1400	Title	Name prefix subfield of Name field	Single
1500	Suffix	Name suffix subfield of Name field	Single

In comparison with N92xx/9300/9500, there are no native “preferred” fields (they are substituted partly by “defaults” – see further text). If they are to be imported, *Contacts Manager+* converts them into “Defaults” (where possible) or leaves them without this property (as “normal” fields). By export, the ‘preferred’ property (if stored with the item) is ignored.

4001	Tel (Preferred)	Tel field with property. Imported as “Default phone”.	Multi
4101	Tel GSM (Preferred)	Tel GSM field with property. Imported as “Default phone + SMS”.	Multi
4301	Fax (Preferred)	Fax field with property. Imported as “Fax”.	Multi
4501	Mail (Preferred)	Mail field with property. Imported as “Default e-mail”.	Multi

The *Nickname* and *WV User ID* fields are supported from S60 2nd Edition onwards, and, with that application version, they are fully imported and also they have their own column, in the exported file. With the S60 1st Edition application version, they are imported only into the ‘Note’ field. If they are present in the database, they are exported into the ‘Misc.’ column, in both versions.

The *Video call* field and its variants are supported from S60 2nd Edition onwards, and, with that application version, they are fully imported and also they have their own column, in the exported file. In the S60 1st Edition phones this field type is not used, but when it is imported, it internally keeps its properties, but *Contacts* application displays it as “normal” *Tel* field (or its appropriate variant, eventually). In this case it is exported into the ‘Misc.’ column.

And – compared with N92xx/9300/9500 – following six field types don’t exist here at all (Symbian S60 phones don’t use them). When they are imported (from N92xx/9300/9500, etc.), they internally keep their properties, but *Contacts* application displays them as “normal” fields *Tel*, *Tel GSM* or *Fax*. When exported by *Contacts Manager+*, they are stored in the ‘Misc.’ column.

4004	Tel (Car)	Tel field with property	Multi
4005	Tel (Data)	Tel field with property	Multi
4104	Tel GSM (Car)	Tel GSM field with property	Multi
4105	Tel GSM (Data)	Tel GSM field with property	Multi
4304	Fax (Car)	Fax field with property	Multi
4400	Fax GSM	Fax GSM (= Fax/mobile) field	Multi

From other devices also various modifications of these fields can be imported – they are exported to the ‘Misc.’ column and numbered. Those fields can be, e.g.:

4401	Fax GSM (Preferred)	Fax GSM (= Fax/mobile) field with property	Multi
4402	Fax GSM (Business)	Fax GSM (= Fax/mobile) field with property	Multi
4403	Fax GSM (Home)	Fax GSM (= Fax/mobile) field with property	Multi

Multi-fields

If there is “multi-field” (i.e. repeating fields) in any contact card, then multi-lining (with repeated lines) is used for export of such a contact, and in this case, contents of five “name-regarded” fields (never repeated in contact card itself) – ‘*First name*’, ‘*Last name*’ etc. – are copied into each line belonging to the same contact (lines with the same ID).

So if, for example, “Parker John” contact card has three *Tel (Business)* numbers, one *Tel GSM (Business)* number and two *E-mail (Business)* addresses, then corresponding columns of its export will look like this:

<i>ID</i>	<i>Last name</i>	<i>First name</i> ...	<i>Tel (Business)</i>	.....	<i>Tel GSM (Business)</i>	.....	<i>Mail (Business)</i>
...							
865	Parker	John	+999333222111		+888777000111		mail1@company.com
865	Parker	John	+999444777666				mail2@company.com
865	Parker	John	+999555000888				

All of these lines are related to the same contact card in the database – called John Parker. In the case of another John Parker in the database, he will have a different ID in the first column to avoid confusion when sorting contacts in MS Excel, etc.

1584 Parker	John	+999321321321	+888666555111	parker@comp.org
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If in doubt with unclear situations (e.g., after sorting the sheet by the “Last name” or “Company”, etc), always check whether these lines have the same ID.

Renamed Fields

Fields with user-defined description such as *Tel (lodge)* or *Fax (1st floor)* are exported as ‘Other Tel’, ‘Other Fax’, etc, and their user-defined descriptions are displayed in the next column:

<i>Other Tel</i>	<i>Other Tel desc.</i>	<i>Other Fax</i>	<i>Other Fax desc.</i>
+999456456456	lodge	+999789789789	1st floor

Group Definitions

Group definitions are also contacts database items. They contain data about their members. If a database contains group definitions, each group has its own data line(s) like normal contact – with the group name in the ‘Last name’ column. In the export table, each group is marked with the “0400 Group” identifier in the ‘Misc. - type’ column. The ‘Misc.’ column contains information about the number of its members (e.g. *3 members*). Each row containing a group definition corresponds with the data in the ‘Member’ column that contains the ID and the name of a group in the contact’s row.

Exporting of group definitions can be enabled/disabled in the *Options -> Settings -> Export groups* item setting. Group definitions are exported onto the end of the table, after the contacts list (regardless of their IDs). When the group exporting is disabled, groups and ‘Member’ fields are not exported.

Note:

Contacts database in the S60 (Series 60) phones doesn’t support “inclusive” groups. If an imported file (created, e.g. in N92xx/9300/9500) contains group definitions where a group is a member of another group, this “secondary” membership is ignored.

Defaults

In the contact card, you can set up to four *default* items: *Phone number*, *SMS number*, *MMS number/address*, and *E-mail address*. These fields in S60 smartphone’s contacts database are very similar to the “preferred” fields in other phone types. The numbers/addresses that these fields are linked to, may also have some another properties, so they often are not only “preferred”. Because of that, the phone numbers/e-mail addresses marked as ‘default’ are displayed in the usual way in their columns, but they are also repeated in the ‘Misc.’ column, with the “Default” mark in the ‘Misc. - type’ column. There is also information about the phone number type (header of a column containing primarily this number) in this item data.

See also the table in the chapter ‘Manual Creating of the Textual File Using MS Excel’.

Items that are to be imported as “Preferred” (from other phones types) are in some cases converted to ‘Defaults’.

Smart Export Features

Exporting contacts might also discover hidden data stored in your contacts database that the *Contacts* application doesn't show – or doesn't fully display.

And, in some cases, *Contacts Manager+* is able to recover data from corrupted contacts database.

“Repair” Function

Although there are no “full” repair functions in *Contacts Manager+*, it is also able to repair corrupted database in some cases. If a corrupted database cannot be opened in the *Contacts* application, you can try to export its data with *Contacts Manager+* into a textual file. Export will skip corrupted contact item. The faulty database can be then deleted and the exported data can be imported into a new, empty database – without corrupted contact.

Contacts Manager+ can also recognize incomplete “compact” entries that may be ignored by the PIMs (MS Outlook, Lotus Notes...) during synchronizing. These fields are usually visible in smartphone's contact card window, but they are often omitted by the synchronizer. No such fields can be created from the smartphone's keypad, though. They are usually created when a business card is received via infrared, Bluetooth, or SMS, especially if sending phone sends it with contracted field headers (compact business card). These fields (in most cases phone number fields) are properly exported into the result file by the *Contacts Manager+*, of course.

Conceded, Hidden, and Special Fields

Database entries can contain more field types in contact cards than user can create or even see in the contact card window.

“Conceded” Fields

Conceded fields are those field types, which can only be fetched externally (via infrared, Bluetooth, or SMS) and not created internally in the usual way. They are visible in the smartphone's contact card.

LABEL - contains formatted unstructured address and is displayed as a single-field *Address* field in the contact card. This field is exported into the common ‘Misc.’ column.

Caution! This formatted address field must not be confused with the regular smartphone's structured “address” fields created of sub-fields (*P.O. Box*, *Extension*, *Street*, *ZIP/Postal code*, *City*, *State/Province*, *Country/Region*). That sub-fields are encapsulated by the “Address” heading when selected for creation.

Note: If you want to try to create such field using *Contacts Manager+*, you can put it in the ‘Misc.’ column of the CSV file to be imported. The identifier of *Address/LABEL* formatted address field is 3800 or 3802, 3803, etc. (but not all of its modifications are accepted by the *Contacts* application in Symbian S60 phones).

ROLE - *semi-conceded* field here. Normally belongs to company data (the meaning is “*Job description*”). In the S60 (Series 60) phone, when imported in a business card, this field is converted into another *Job title* field – additionally to the regular *Job title* field.

Note: You can create multiple *Job title* fields in the same card using a S60 phone's keypad or by import, anyway.

“Hidden” Fields

Similarly, *hidden* fields (invisible in the contact card) can be only fetched externally (via infrared, Bluetooth, or SMS) and they cannot be created from the keypad. But, unlike the *conceded* fields, they are not displayed in the contact card window.

Following field types, if they are present in imported contacts data, or in received business card, are stored with the contacts data. They are not displayed in the contact card, though. *Contacts Manager+* exports these fields into the common ‘Misc.’ column.

They can be:

Middle name [1300]

Title [1400]

Suffix [1500]

Some phone models may also contain hidden fields that are not supported by all types, such as:

Nickname [1700],

WV User ID [8000].

Additionally, during synchronization, some unspecified or non-standard fields might be imported.

Hidden Properties of Fields

Certain field types can contain subtypes (properties) that are not seen in the contact card window.

They are usually imported from another device or received in a business card. These are, e.g.

Tel (Car) [4004]

Tel (Data) [4005]

Tel GSM (Car) [4104]

Tel GSM (Data) [4105]

Fax (Car) [4304]

Fax GSM [4400]

Fax GSM (Preferred) [4401]

Fax GSM (Business) [4402]

Fax GSM (Home) [4403]

or **Address/Label** fields.

These fields are displayed as normal *Tel*, *Tel GSM*, *Fax*, or *Address* fields, in the *Contacts* database.

Their hidden properties are exported with them by *Contacts Manager+*, though.

Contact card fields by some models may also contain hidden properties that are not supported by all types, such as:

Video call [4900],

Video call (Business) [4902],

Video call (Home) [4903].

Those phone types display such fields as normal *Tel* fields, in the contact card window. These hidden properties are fully exported with the fields, though (according to the application version, either into its own column or into the '*Misc.*' column).

“Special” Fields

Special fields are linked to the sound or picture data and are sometimes created by another application in the smartphone.

Ringtone – individual ringtone of the certain contact person. This field has its own column in the exported file.

Speed dial – speed dial key for selected phone number of the contact person. Phone number that the speed dial key is referred to is shown (i.e., repeated) in the '*Misc.*' column. In the '*Misc. - type*' column, the speed dial key assigned is displayed. There is also information about the phone number type (header of a column containing primarily this number) in this item data.

Picture – contact picture file(s). This data has its own column in the exported file. In the *Options->Settings->Export thumbnail data*, you can set whether whole thumbnail (embedded picture) data (JPEG format, Base64 encoding) will be exported into the '*Picture*' field, or only 'TRUE' flag (where acceptable) will be set in this field.

If there is an external image (greater picture) linked to the contact, the path to the image is also written in the '*Picture*' column. **Note:** External contact images are supported only by some S60 (Series 60) phone types, like N7650 or N3650.

Import into a Symbian S60 (Series 60) 1st or 2nd Edition Phone (Nokia 3650/3660/6260/6600/6620/6630/6670/6680/6681/7610/7650, N70, N90, N-Gage, N-Gage QD, Siemens SX1, Sendo X, and Others)

You can import the CSV/TXT file created by export from Symbian S60 (Series 60) phone, Nokia 92xx/9300/9500, or SE P800/900/910 phone (or created manually using the CntMng export protocol format definition). You can also transfer contacts databases between communicators or phones.

Note: Before using this tool, do a fresh backup of the data in your phone!

In the working folder or *Messages* window, move the cursor on the file that you want to import, press joystick or *Options*->*File*, and choose *Import from selected*. Accept the warning message, and by pressing **Yes** button, confirm adding imported contacts into the main contacts database. Counter shows number of successfully imported contacts.

Standard and recognized items are imported into proper fields. For each *unrecognized or unknown* item, a new *Note* field is created in the contact card and data of such item is written in this *Note* field in a textual form.

Group definitions import is supported (“inclusive” membership of groups is ignored). It is optional feature – during contacts import, you are asked whether groups are to be imported.

Note: Before importing groups, application checks whether *Contacts* application is closed. If it is open, you are offered with closing it. If you press ‘No’, groups are not imported.

Templates import is currently not supported.

Contact card marked as *Own card* (e.g. from N92xx/9300/9500), is imported as a “normal” contact, and in the *Note* field, the “*Own card*” remark is added.

Also, import of *Picture/Photo* and *Sound/Ringing* data is supported, as well as *Speed dials* settings.

When thumbnail data is imported, the picture size is checked – its width must not be greater than 80 pixels, and height must not be greater than 96 pixels. If the size is invalid, the thumbnail is not imported, and this fact is marked in the *Note* field.

If picture data is given just as a path to the picture file, it is imported only when the path is valid. If the path is not valid, it is imported into a *Note* field.

Note: External contact images are supported only by some types of S60 (Series 60) smartphones (e.g., N7650, N3650).

Similarly, when importing ringing file data given as a path to the file, it is imported only when the path is valid. If the path is not valid, it is imported into a *Note* field.

Import and export of the ‘*Default*’ attributes is supported.

Voice dial import is currently not supported.

For more details about import features in the current version of the application, please check the *readme.txt* file.

Import into Nokia 92xx/9300/9500 Communicator

For instructions, please read user’s guide of *Contacts Manager+ for N92xx/9300/9500*.

Import into Sony Ericsson P800/900/910 (UIQ) Phone

For instructions, please read user’s guide of *Contacts Manager+ for UIQ*.

Import into Nokia 7710 (Series 90) Phone

For instructions, please read user's guide of *Contacts Manager+ for Nokia 7710*.

Import into the Microsoft Excel Application

The data file is coded in **Unicode**, so you can import it directly into **MS Excel 2000 or newer** versions.

When importing it into **older Excel versions** (without Unicode support), e.g. **Excel 95/97**, first open the Unicode-coded file with MS Word (or another capable editor), save it – again in plain textual form – in appropriate national coding, and then it is ready to be imported into older version of MS Excel.

Keep the Proper Procedure

To prevent distorting phone numbers when loading exported data into MS Excel, it is important to import them as “text”, not “numbers” or “general”. Although user can set cells format in the empty Excel sheet as "text", this setting is valid only for typing, not for importing. As soon as you paste or straight-import data into these cells, this setting is ignored, and data is imported in "general" format. Phone numbers might then be distorted and long data strings truncated to 255 characters only.

Before exporting, you should ensure that settings in *Contacts Manager+* are set in the recommended way:

Cell separator: comma (default) or semicolon (change it so if necessary)

String qualifier: quote (default)

You may use the “apostrophe” qualifier if necessary, but don’t use “tab” separator (delimiter) in the case you need to import the file into MS Excel.

Save the exported file with chosen name and **.csv** extension. Continue with the “a” section.

If you have data exported with “tab” delimiter, the file should have **.txt** extension. For proper importing of such a file, please skip this “a” section and follow the “b” section instead.

a) Having the Data in CSV File

If you have created a comma or semicolon delimited file with CSV extension, you can open it – as an associated file – by simply **double-clicking** on the file (application will open automatically). Or you can use MS Excel's function **File->Open...**

But neither comma nor semicolon delimiters are expected to be default ones in MS Excel. So all data is loaded into the “A” column.

In CSV format, user can use "text qualifiers" (quotes or apostrophes), but this doesn't influence the format in which the data is imported or pasted into the cell. Text qualifier is important in the case that text strings may contain the same characters as those used as delimiters, and this becomes the way to differentiate valid characters from delimiters. But text qualifier never ensures that text strings will be imported by MS Excel as text strings. This has to be ensured in a different way (see further).

Select (mark) the “A” column containing the data, and select **Data->Text into columns**. This will run the importing Wizard. If you used **Data->Read external data->Import text file** instead of opening a file, you would get a very similar wizard.

In the first Wizard window choose ‘Delimited’ option and click on **Next**. In the second Wizard window choose proper ‘Delimiter’ and ‘Text qualifier’ (according to the settings in *Contacts Manager+*, i.e. comma and quotes if it is in default recommended setting).

Note – the ‘Treat consecutive delimiters as one’ option **MUST NOT** be selected (the box next to it has to remain empty)!

Click on **Next**.

Now we have reached a very important moment for proper format settings. First column in 'Data preview' table in the lower half of the third Wizard window is selected (= in black) and prepared for format change. But we need to set ALL columns into "text" format. So press and hold the Shift key, and jump to the last column in the preview (the fastest way is to move the slider to the far right edge) and click on the last column's header tab. Now all the columns should be black (= ‘selected’). In the

'Column data format' list, select the 'Text' option. Header tabs of all columns must change from 'General' to 'Text'.
Press **Finish**.

Now data is correctly imported, and phone numbers are represented properly (the "+" sign is OK, spaces are OK, data strings of pictures or ringings are not truncated).

Note: You can do it easily using our Excel macro (see Appendix A).

b) Having the Data in the TXT File

TXT file is the case when "tab" is the chosen delimiter. This format doesn't need text qualifiers, so sometimes this option is set as "none".

Don't use *File->Open* function for loading the data into MS Excel, because it would open it in the wrong format with distorted phone numbers and truncated data strings. Create a new (empty) sheet and select **Data->Read external data->Import text file**. Browse text files – select 'File types: text files (*.txt)', find your exported text file in TXT format (tab delimited), and press **Import** button. That will run the importing Wizard.

In TXT format, a user can also use "text qualifiers" (quotes or paragraphs), but this doesn't influence the format in which the data is imported or pasted into cell. Text qualifier is important in the case that text strings may contain the same characters as those used as delimiters, and this is the way to differentiate valid characters from delimiters. But text qualifier never ensures that text strings will be imported by MS Excel as text strings. This has to be ensured in a different way (see further).

In the first Wizard window choose 'Delimited' option and click on **Next**. In the second Wizard window choose proper 'Delimiter' and 'Text qualifier' (according to the settings in *Contacts Manager+*, e.g. the "tab" delimiter and "none" qualifier).

Note – the 'Treat consecutive delimiters as one' option **MUST NOT** be selected (the box next to it has to remain empty)!

Click on **Next**.

Now we have reached a very important moment for proper format settings. First column in 'Data preview' table in the lower half of the third Wizard window is selected (= in black) and prepared for format change. But we need to set ALL columns into "text" format. So press and hold the Shift key, and jump to the last column in the preview (the fastest way is to move the slider to the far right edge) and click on the last column's header tab. Now all the columns should be black (= 'selected'). In the 'Column data format' list, select the 'Text' option. Header tabs of all columns must change from 'General' to 'Text'.
Press **Finish**.

Now data is correctly imported, and phone numbers are represented properly (the "+" sign is OK, spaces are OK, data strings of pictures or ringings are not truncated).

Note: You can do it easily using our Excel macro (see Appendix A).

Editing the File

You can edit file with changing its data. Be careful doing so and keep the proper format of the fields content.

Warning:

While working with the data table in a spreadsheet application, never remove the "A" column with ID data.

When sorting items by any header (Last name, Company...), always select ALL columns.

Cell format has always to be set in the way that data is interpreted as "text", and not as "number" or "general" data.

If you would like to import the data back into a phone or communicator using this program, don't edit or remove the first two lines containing the export protocol identifier and the column-numbering headers.

Saving Data from MS Excel to CSV format

After editing, check the valid content of cells, as import doesn't check the data type. Don't put "invalid" characters in the "phonenumber" fields. The application will import whatever entered, but you might have problems with dialing such a "number" containing invalid characters.

- 1) Check the table and remove all empty existing rows within the range.
- 2) Select *File->Save as...* and choose "File type":
 - either 'CSV (comma separated value)'
 - or 'Text (tabs delimited)'
 - or 'Text in Unicode' (recommended when transferring into an other-language communicator/smartphone/PDA).
- 3) Save the file

Now you can send the file to a phone via infrared or Bluetooth, or move the file to a phone using PC Suite.

Warning! When moving the CSV/TXT file into a phone using PC Suite (dragging it to the phone's window), don't use "Copy and convert" (default dragging settings), but use "Copy only" with the right mouse button pressed and held while dragging. Otherwise, the system may change the file structure (from plain text to Epcoc format) and the file import will fail.

Manual Creating of the Textual File Using MS Excel

User can also create the textual file for *Contacts Manager(+)* manually:

- 1) Create an empty MS Excel table with the proper header. The “starting” table can be taken from an empty *Contacts Manager+* export file.
- 2) Fill in the contacts data into cells. In the column 0000, assign the unique ID to each contact. Each contact record can have as many rows as needed for entering all required data of the contact. Table rows belonging to the same contact must have identical ID in the column 0000. Content of ‘*Last name*’ and ‘*First name*’ items should be repeated in all rows belonging to the same contact.
- 3) Follow the ‘Saving Data from MS Excel to CSV format’ paragraph mentioned above.

By using the “empty“ *Contacts Manager*’s form, you get automatically pre-filled headers of all columns you might wish to use. Their description can be found in the table in the user guide. But in the case you would like to define groups, or assign additional properties (speed dial, default number/address) to some contacts data items, you have to know numerical identifiers of these properties, and state them in the columns 99xx.

010k – Speed dial, *k* means speed dial key number

0102 – 0109 (speed dials on keys 2 to 9)

Speed dials importing is supported in the S60 (Series 60) application version.

0200 – Template

Templates import is currently not supported.

0300 – Member

Uses its own columns, cooperates with groups.

0400 – Group

Groups import is supported.

0500 – Own card

S60 (Series 60) phones don’t use contact database records for own card definition settings.

Contact card marked as *Own card*, is imported as a “normal” contact, and in the *Note* field, the “*Own card*” remark is added.

06dd – Default item, *dd*=11, 12, 13, 14, 15

0611 – Default phone

0612 – Default SMS

0613 – Default MMS

0614 – Default e-mail

0615 – Default video call – only with some types

The ‘Default’ attribute can be present only by S60 (Series 60) phones and its import is supported.

This version can provide mutual conversion between the ‘Default’ attribute (by Series 60) and the ‘Preferred’ property (by N92xx/9300/9500).

0700 – Voice dial

Voice dial import is currently not supported.

Note: Voice dials are even not fully exported with this application. During exporting, only remark about the voice dial tag existence is made with the contact data. Recordings themselves are not parts of contacts database.

0800 – Voice mailbox

S60 (Series 60) phones don’t use contact database records for voice mailbox definition settings.

Data Format in the Fields of the Import Table

When adding or editing source table data, always check, whether the content of cells is valid, as import doesn't check the data type (except of the 'Birthday' field). Don't put "invalid" characters in the "phonenumber" fields. The application will import whatever entered, but you might have problems with dialing such a "number" containing invalid characters.

Date in the 'Birthday' field must be in the format DD.MM.YYYY – regardless the 'regional settings' of the phone and PC (the same format is used for exporting this field). If the format of the 'Birthday' field in the source CSV/TXT file is other than specified, or its content is incorrect, it is imported as text in the Note field.

Using the 'Misc.' Columns

Columns marked as 'Misc. ...' can be used both for entering those item types that don't have their own column (so called "unknown" items), and for assigning additional properties to items that have their own column.

Creating Groups in Imported CSV/TXT File

Now in the version 1.10 and upwards, it is neither necessary to put ID numbers of the groups in the 'Member' column, nor to set groups definitions rows anymore so it is much easier to work with groups or categories, and the contact membership, when you create the import file manually.

You only have to set the group name in the 'Member' column in the appropriate contact row, and the application takes care of a group creating and a membership assigning itself.

0000	1100	1200	...	0300	9906	9999	9907
ID	Last name	First name	...	Member	Misc.	Misc. – type	Misc. desc.
...
128	Public	John	...	Friends			
129	Known	Ray	...				
131	Seldom	Robinson	...	Family			

Defaults

(table to be added)

Assigning a Speed Dial Key Using CSV File in the S60 Phone

Though it is more convenient to set speed dials using phone interface, you can do it also using the CSV file by import.

Within the range of rows with ID belonging to the contact that you would like to assign a speed dial key to, find the row with free cells in columns 9906, 9999 and 9907. If none of these rows belonging to the contact doesn't qualify, insert a new row into the table, put the ID of the selected contact into the column 0000 (that means that data in this row belongs to the same contact), and in columns 1100 and 1200 repeat the Last name and First name of the contact (this is important for your proper orientation in the table). In the cell in column 9906 repeat the phone number that you would like to assign a speed dial key to, in the column 9907 write numerical identifier of the column that you have copied the phone number from, and in the column 9999 write speed dial key numerical identifier 010*k*, where *k* is key 2 – 9 (key 1 is reserved for the voice mailbox, key 0 is not available as a speed dial option). Descriptions of numerical identifiers are not mandatory.

0000	1100	1200	...	4000	...	4100	...	9906	9999	9907
ID	Last name	First name	...	Tel	...	Tel GSM	...	Misc.	Misc. - type	Misc. desc.
2	Smith	Jim	...	911141114	...	955555555	...	911141114	0102 Speed dial 2	4000 Tel
2	Smith	Jim	...	900020002	...		...	955555555	0103 Speed dial 3	4100 Tel GSM
2	Smith	Jim	...		...		...
2	Smith	Jim	...		...		...
45	Black	Joe	...	822252225	...	123456789	...	822252225	0108 Speed dial 8	4000 Tel

Description next to numberings in columns 9999 and 9907 are again not mandatory and they can be omitted – the table then would look like this:

0000	1100	1200	...	4000	...	4100	...	9906	9999	9907
ID	Last name	First name	...	Tel	...	Tel GSM	...	Misc.	Misc. - type	Misc. desc.
2	Smith	Jim	...	911141114	...	955555555	...	911141114	0102	4000
2	Smith	Jim	...	900020002	...		...	955555555	0103	4100
2	Smith	Jim	...		...		...
2	Smith	Jim	...		...		...
45	Black	Joe	...	822252225	...	123456789	...	822252225	0108	4000

... but it is better to use them as comments, at least for your future understanding of table data.

Importing a General Contacts CSV/TXT File

Although still only CSV/TXT files in the CntMng format can be imported directly, now, in the version 1.10 and upwards, it is much easier to adapt a general CSV/TXT contact file produced by export function of, e.g., MS Outlook, or other applications. You only need to add “the envelope”, and the file can be imported as a native CntMng CSV/TXT file.

The “envelope” contains the first “ID” column and the first two rows (the header row and the “numbering” row).

(Detailed description will be completed later).

Advanced Usage of 'Misc' Columns (in Version 1.10 and Higher)

In the previous chapter we showed several examples of how to use 'Misc.' columns for import. Let's remind that the export function uses the three columns marked as 'Misc. ...' ([9906]/[9999]/[9907]) both for storing items that don't have their own column (like "unknown", unsupported, or semi-supported ones) as well as for storing various supplemental properties to items that have their own column. So columns [9906], [9999] and [9907] have special role, in the CSV/TXT file in the Cntmng format – they have several purposes.

The similar situation is with a manual preparing of contacts table for import. So if you want, e.g. to assign supplemental properties (speed dial, default number/address...) to certain items, you only need to know the numerical identifiers of such properties and write them properly into the 99xx columns.

*Speed dial [010x],
Template [0200],
Own card [0500],
Default number/address [06xx].*

Examples of proper steps on how to use them are described in the previous text. Not all supplemental properties and items are supported by import in all versions of the application though so please check what 0xxx item types import is supported by your device or the application version.

Useful Variation

If necessary, the 'Misc' column can be used – thanks to its universality – also for storing of standard items that normally have (or can have) their own column, though.

If you use the "empty" Contacts Manager's form for filling in the import table manually (you'll get this empty form by exporting of an empty database), then headers of all columns you might wish to use are filled automatically. Their description can be found in the table in the chapter 'Exported File – the Format and the Structure'. However, various types or groups of devices may differ in the contact field types that the device shows to the user. This is respected by the table format of the exported file – no individual columns for unsupported items are usually created in export, such items are written into the 'Misc.' column instead. And, when imported, these data are loaded from the 'Misc.' column into the proper fields in the database. Number of columns in the structure of exported file may therefore vary, which is not a problem as items are uniquely determined by numerical identifiers, and it doesn't matter whether they are in separate column or in the common "Misc." column. In import, program identifies and sorts items entirely according to their identifiers.

So, exported CSV/TXT files (data tables) created by various versions of Agora Contacts Manager – despite having different number of columns – are mutually compatible and transferable.

No doubt you already noticed, when you inspected exported file in a spreadsheet application on PC, that some of the "semi-supported" items are by some type of devices exported into the 'Misc.' column (without creating own columns for them). Nevertheless, another version of the application can read them back from such file without any problem as if they were in their own column, and vice versa. This is the case, for example, of the **Middle name** [1300], **Title** [1400], or **Suffix** [1500] items. They are exported from the N9210/9290 or N9300/9500 communicator into their own columns because these fields are fully supported there. However, in the S60 (Series 60) device, these items are only partly supported. So if an export table created by Contacts Manager for N9210/9290 or N9300/9500 is imported into the S60 (Series 60) device, these items are imported correctly, but stay hidden. When exported from S60 again, they are written into the 'Misc' column (the export function of Contacts Manager for S60 (Series 60) doesn't create their own columns for these items). In the case that the export table created in this way is imported back into the N9210/9290 or N9300/9500 communicator, these items are loaded back correctly – as if they were in own columns with mentioned headers.

That means that it makes no difference whether a regular item is written in its own column or in the 'Misc.' tri-column.

It follows, from the foregoing text, that by the 'manual' creating of the import table, user can write into the 'Misc' tri-column virtually any valid data that he doesn't want to create separate columns for. You can employ this in simplifying the table that is created (or edited) manually. If you create completely new table and you know that some of the columns won't be filled in at all, you can omit them. In some cases, this could make your table more simple and readable.

And in the case that some columns contains very small number of records, you can place these records into the 'Misc' column - this will empty those own columns and you can omit them, too.

Note: For full universality of items loading from the 'Misc' column you have to use version Contacts Manager+ 1.10 or higher. Versions with lower number cannot guarantee full support of import of all item types from the 'Misc' column.

Illustrative Example of Variants:

Data of 'DTMF' items can be written in the usual way into its own column [4800]:

0000	1100	1200	...	4000	...	4800	...	9906	9999	9907
ID	Last name	First name	***	Tel.	***	DTMF	***	Misc.	Misc. – type	Misc. – desc.
234	Spark	John	...	911141114	...	505*11p78	...	822252225	0108 Speed Dial 8	4000 Tel.
234	Spark	John	...	900020002	...		...
234	Spark	John	...	822252225	...		...

But the entry in the table above can also be written in the following way:

0000	1100	1200	...	4000	...	4800	...	9906	9999	9907
ID	Last name	First name	***	Tel.	***	DTMF	***	Misc.	Misc. – type	Misc. – desc.
234	Spark	John	...	911141114	...		...	822252225	0108 Speed Dial 8	4000 Tel.
234	Spark	John	...	900020002	...		...	505*11p78	4800 DTMF	
234	Spark	John	...	822252225	...		...

Here we have used the possibility to write a scarce item into the 'Misc' column. If the same procedure were repeated by all contacts that have DTMF data in the 'DTMF' column, we could omit the column 'DTMF' [4800] at all.

Note: As already mentioned before, descriptions next to numberings are not mandatory and they can be omitted, but it is better to use them as comments, at least for your future understanding of table data and their easier identification in the future. The table with dropped optional descriptions in columns 9999 and 9907 would look like this:

0000	1100	1200	...	4000	...	4800	...	9906	9999	9907
ID	Last name	First name	***	Tel.	***	DTMF	***	Misc.	Misc. – type	Misc. – desc.
234	Spark	John	...	911141114	...		...	822252225	0108	4000
234	Spark	John	...	900020002	...		...	505*11p78	4800	
234	Spark	John	...	822252225	...		...

The 'Misc' tri-column can also contain renamed items (with user-defined label) – in this case the item in the column 9999 has the identifier xx06, and its description (renaming) is written into the column 9907.

For example – renamed Pager is written in its own column in the following way:

0000	1100	1200	...	4206	4207	...	9906	9999	9907
ID	Last name	First name	...	Other Pager	Other Pager – desc.	...	Misc.	Misc. – type	Misc. – desc.
234	Bond	James	...	111007	Mission	...			
234	Bond	James	...			...

But it can be also written (in the case it is preferable) in this way:

0000	1100	1200	...	4206	4207	...	9906	9999	9907
ID	Last name	First name	...	Other Pager	Other Pager – desc.	...	Misc.	Misc. – type	Misc. – desc.
234	Bond	James	...			...	111007	4206 Other Pager	Mission
234	Bond	James	...			...

If inchmeal moving of data into the 'Misc' column empties the whole column or columns (in our example columns 4206 and 4207), it (they) can be dropped at all.

By the end of this chapter let's remind general rules for manual creating of the table:

- In the column '0000', assign the unique ID to each contact.
- Each contact record can have as many rows as needed for entering all required data of the contact.
- Table rows belonging to the same contact must have identical ID in the column '0000'.
- Content of *Last name* and *First name* items should be repeated in all rows belonging to the same contact.

For saving data, follow the "Saving Data from MS Excel to CSV format" paragraph.

Converting Exported Pictures/Thumbnails from a String of Characters to a JPEG File

At the moment, it is not possible to import exported pictures directly to MS Excel. The export format is textual, so the binary data – if the database contains it – is encoded into a text string as well.

When data is imported into cells in “General” format, MS Excel truncates all text strings (including the picture data string) to 255 characters. That’s why it is necessary to import them in “Text” format, as described in the ‘Import into the MS Excel Application’ chapter.

So it must be decoded from Base64 encoding to binary first. It can be done using any suitable MIME-decoding program.

The procedure:

- 1) Create a new empty plain text file (via Notepad or similar program).
- 2) Copy picture data string from CSV file into the clipboard (it is recommended to take data directly from the TXT or CSV file, as it could be truncated in Excel sheet).
- 3) Paste the data string of the picture into the text file and add a MIME header:

```
-----  
MIME-Version: 1.0  
Content-Type: application/octet-stream; name="contact.jpg"  
Content-Transfer-Encoding: base64
```

```
|->put the encoded string here<-|  
-----
```

where the "contact.jpg" is the target name of the picture file.

Now apply the decoding procedure to this text file using the MIME objects decoder.

You can do it in the batch:

```
-----  
MIME-Version: 1.0  
Content-Type: application/octet-stream; name="contact1.jpg"  
Content-Transfer-Encoding: base64
```

```
|->put the encoded string of the picture of the "CONTACT1" person here<-|
```

```
Content-Type: application/octet-stream; name="contact2.jpg"  
Content-Transfer-Encoding: base64
```

```
|->put the encoded string of the picture of the "CONTACT2" person here<-|
```

etc.

If you apply the decoding procedure to this multi-data file, you will get all pictures in this file - in one step decoded.

Error Messages

Can't open contact (in some versions: **One of the contacts couldn't be open**)

(Situation: Export)

A record in the contact database is inaccessible and cannot be exported.

By pressing *Try again*, you can try to repeat the action, by pressing *Skip*, you will ignore it and skip to the next contact, pressing *Cancel* will stop exporting.

Export has stopped with error

(Situation: Export)

Export of contacts data to the CSV/TXT file was not successfully completed because of unspecified error.

Close *Contacts Manager+* and all other applications that use contacts database (if there are such programs installed and running). Re-open *Contacts Manager+* and repeat export. If the error still persists, restart the phone.

User break

(Situation: Export, import)

The *Cancel* button was pressed during export or import operation.

Error in source file

In contact no. ... /Contact ID ... /on the row ...

(Situation: Import)

Data integrity in import file is corrupted.

Check the source file and complete or correct cells data.

Import interrupted with error

(Situation: Import)

Import of contacts data from the CSV/TXT file was not successfully completed because of unspecified error. The error number is displayed.

Series 80: Error number (-11) means that you are trying to overwrite existing secondary contacts database, which is currently open in *Contacts*. Close the database or choose another name for the newly created database.

If this is not the case, close *Contacts Manager+* and all other applications that use contacts database (if there are such programs installed and running). Re-open *Contacts Manager+* and repeat importing. If the error still persists, restart the phone.

Incompatible file format or missing header data row

(Situation: Import)

Contacts Manager+ is not able to read data from the source file because:

- the structure and/or content of the imported file are not compatible with *Contacts Manager+*
- the configuration string in the top row or numeric headers of columns were not recognized.

Nothing to import

(Situation: Import)

Format of the source CSV/TXT file is valid, but contains no contacts data to import.

Export error

(Situation: Export of external data – in UIQ version only)

The file you are trying to export contacts from is not compatible contacts database.

No MMC found

(Situation: Export, Import – in Series 60 or 80 versions only)

MMC card is not inserted, or is unavailable

Cannot export to Messages!

(Situation: Export – in Series 60 version only)

Only 'Import' and 'Send' function can be used when the Messaging files area is selected.

Appendix A:

Using Macros for Easier CSV File Importing into MS Excel

If you have exported CSV file from *Contacts Manager+* in the default format, and you click on it in Windows, it opens in the first column of Excel sheet. You can use the “Text to columns” function, as described in the chapter ‘Import into the Microsoft Excel Application’, or you can use our macro.

The ‘CSV-to-columns-keeping-text-as-a-text’ macro (for 81 columns import), if the CSV file format is: Text qualifier=quotes, Fields separator=comma

This macro works with 81 columns so you can use it both for the Series 60 version (with 68, or 75 respectively, columns in the CSV export file) and for the N92xx/9300/9500 versions (with 81 columns in the CSV export file), Series 90 version (with 73 columns in the export file), as well as for the UIQ version (with 58 columns in the export file).

It can be used only for CSV settings with quotes as the text qualifiers and commas as the field separators. For different CSV settings (different text qualifier and field separator), this macro needs to be changed.

The macro is available for downloading on the application’s homepage – see <http://www.communicator.cz>. Its name is “81columns.bas”.

Listing of the macro:

```
Sub CSVTo81TextColumns()
'
' CSV To 81 Text Columns macro
' For Contacts Manager
' If the format is: Qualifier=quotes, Delimiter=comma
'
Columns("A:A").Select
Selection.TextToColumns Destination:=Range("A1"), DataType:=xlDelimited, _
TextQualifier:=xlDoubleQuote, ConsecutiveDelimiter:=False, Tab:=False, _
Semicolon:=False, Comma:=True, Space:=False, Other:=False, FieldInfo _
:=Array(Array(1, 2), Array(2, 2), Array(3, 2), Array(4, 2), Array(5, 2), Array(6, 2), _
Array(7, 2), Array(8, 2), Array(9, 2), Array(10, 2), Array(11, 2), Array(12, 2), Array(13, 2 _
), Array(14, 2), Array(15, 2), Array(16, 2), Array(17, 2), Array(18, 2), Array(19, 2), Array _
(20, 2), Array(21, 2), Array(22, 2), Array(23, 2), Array(24, 2), Array(25, 2), Array(26, 2), _
Array(27, 2), Array(28, 2), Array(29, 2), Array(30, 2), Array(31, 2), Array(32, 2), Array( _
33, 2), Array(34, 2), Array(35, 2), Array(36, 2), Array(37, 2), Array(38, 2), Array(39, 2), _
Array(40, 2), Array(41, 2), Array(42, 2), Array(43, 2), Array(44, 2), Array(45, 2), Array( _
46, 2), Array(47, 2), Array(48, 2), Array(49, 2), Array(50, 2), Array(51, 2), Array(52, 2), _
Array(53, 2), Array(54, 2), Array(55, 2), Array(56, 2), Array(57, 2), Array(58, 2), Array( _
59, 2), Array(60, 2), Array(61, 2), Array(62, 2), Array(63, 2), Array(64, 2), Array(65, 2), _
Array(66, 2), Array(67, 2), Array(68, 2), Array(69, 2), Array(70, 2), Array(71, 2), Array( _
72, 2), Array(73, 2), Array(74, 2), Array(75, 2), Array(76, 2), Array(77, 2), Array(78, 2), _
Array(79, 2), Array(80, 2), Array(81, 2))
Range("A1").Select
End Sub
```