SOFTWARE CONTROL SERVICES (PTY) LTD

475 King's Highway, Lynnwood
P.O.Box 36675, Menlo Park
Pretoria, South Africa
0102

(t) +27 12 348 7301
(f) +27 12 348 1129
(e) techsupport@softconserv.com
www.softconserv.com

SoftSMS

HELP VERSION - 1.03.29 2017-3-08

This help file serves the help manual to SoftWin version 3 SMS / GSM program and can be access via the program by selecting help.

Index:

1 AIM

The aim and goal of this document is to serve as a general help manual for the use of the Softcon program SoftWin 3. More technical details are available in documents that describe the database functions, communication and installation specifics.

The document SoftWin3_Spec lists the specifications of the program and those specifications must comply with this document and vice versa. Certain specifications may be duplicated here for completeness and clarity (e.g. priority criteria), but duplication should be limited where possible.

General development info about the program SCS_SMS is:

Count of tasks:	1.
Program language:	C++, IDL (Interface Definition Language).
Technology:	MFC, Multithreading, DAO, COM and RPC.
Program architecture:	Multiple document templates.
Program development:	MS Visual C++ 6.0.

2 GENERAL

SCS_SMS enables the sending of **SMS messages** to Cell phones by of the Softcon SoftWin3 range of programs. It can be installed and run on any PC as required and requires a link to the program SCS_Server that interfaces to the system databases and passes messages to be sent.

Events can be generated by calling Cell modems connected to PCs running SCS_Client – referred to as **tele-control**. The **Caller Identification** is read and is used to identify a cardholder (Cell phone field in the card database). The cell modem is configured as a reader and call is identical to as if the cardholder tagged a card at the reader – i.e. normal access control regulations apply (card status, area and time groups, etc.). Events are set-up to trigger appropriate outputs – e.g. to open a gate, enable alarm system, switch lights off, etc. This requires SCS_Client running.

SCS_Server communicates with the databases and links via TCP communication links to SCS_SMS that can be running on the same and/or on a different PC. Only 1 SCS_SMS in run a system The program SCS_SMS described in this document.

A Cell modem is connected to a serial port of the PC (COM1 to 4).

Different **languages** are accommodated via configuration databases.

3 START-UP

The Softcon program SCS_Server.exe must be running before the client program is started. SCS_SMS can be started with the following parameters:

/start	Starts and links to the previous server selected, with the password shut down with.
/start:???	Starts and links to server running on PC ???, with the password shut down with. ??? is the network name or IP address of the PC.

These parameters can be viewed in help about or by starting the program with the parameter **/?**

The Softcon program SCS_Server.exe can be started with the following parameters:

/audit	All database editing is logged to the daily audit file c:\softwin3\audit\auyymmdd.mdb.
/language:???	Selects language ???. Requires the appropriate language fields in the configuration databases. See **language** in SCS_Edit.hlp set-up.
/start	Starts with the password shut down with.

These parameters can be viewed in help about by right clicking on the dialog name bar (blue section on the top) or by starting the program with the parameter **/?**

When SCS_SMS start running the following occurs:

Initialises the server for communication.
Connects to the server application.
Receives the client RAM information.
Creates the client RAM temporary tables and loads and checks the client RAM.
Starts COM port and the connection task that communicates to the SMS modem.

4 CLOSING

Stops COM port tasks.
Frees the client RAM and closes the client RAM temporary database.
Stops the check connection task.
Sends “bye” to the server application.

5 CELL MODEM

SCS_SMS has been designed to communicate with the Siemens GSM TC35 modem. Other modem types must adhere to the same protocol. Other modem types that require different protocols could be added – please contact Softcon.

Refer to the modem manual for installation procedures. The modem is connected to a PC COM port and the port is configured in the **Modem Properties menu**.

6 LOG MESSAGES

When messages are sent to the modem, the events are generated and logged:

t10 nPC s??? xuser vSMS_ref z1intruction z2error_code

where PC is the reference to the PC sending the SMS.
??? is 450 – SMS sent.
451 – SMS Remove on timeout (messages in send queue are removed after time-out, not sent due to error).
452 – SMS Remove Stop (messages in send queue are removed after port is stopped).
453 – SMS Error.
User is the reference to the logged on user.
SMS_ref is the SMS reference number.

Instruction if the Modem_instruction_number (only 2, 3, 5 and 6 have error codes):
0 – None.
1 – Ask SMS card PIN.
3 – Set cell-phone number to where message is sent.
4 – Enter SMS message number.
5 – Message text.
6 – Enter SIM card PIN.
7 – Reset errors.
8 – Set text mode.

7 FILE


Save. The data in the active window is saved to file.
Save As (Crtl+S). The data in the active window is saved to file with a new name.
Save As Live. The data in the active window is saved to file and marked for live updates (changes are displayed when changes occur).
Save Not As Live. The data in the active window is saved to file and not marked for live updates. To display the current values of the data, close and reopen or select F5 (refresh).
Close. The active window is closed.
Exit. SCS_SMS closes.

8 SET-UP

Set-up editor displays set-up editors for display and editing. See the list editor for details.

The default list contains the **PC** set-up, editing PC name the Cell Modem is connected to. This data is also editable in SCS_Client.exe (set-up PC).

SMS I/O Set-up configures the COM port the modem is connected to and selects the type of modem connected (GSM). The Source is set to GSM when using tele-control, and GSM Send/Receive when SMS is used (tele-control also possible. Typically:

SMS IO Set-up

Ref	App	PC	Source	Type	Speed	Data Bits	Parity	Stop Bits	Flow	HW Type	HW Ref
1	SCS_SMS	localhost	GSM Incoming Call	COM1	9600	8	None	1	None	GSM	zGsm 1

SMS GSM Set-up

SMS GSM

Ref	Name	PIN	SMS Center	Reader	Report	Rep Alarm
1	zGsm 1	**********	+27829129	zRD 01	Evn,Log,Dis	Evn,Log,Dis

Ref is the database reference number and **Name** is the network name of the PC.

The Cell network provider provides the **SMS Centre number** and the **SIM PIN** protects the SIM card against illegal use. This data is communicated to the Cell Modem when calling, and if incorrect, a communications error is generated.

For SMS, messages as set:

SMS trigger lists **SMS Send** data, containing the SMS messages sent to which phones when set events occur.

SMS Ref displays the reference number and a descriptive name of the SMS and is selected by the list box. The name of the SMS is edited by clicking on the name.

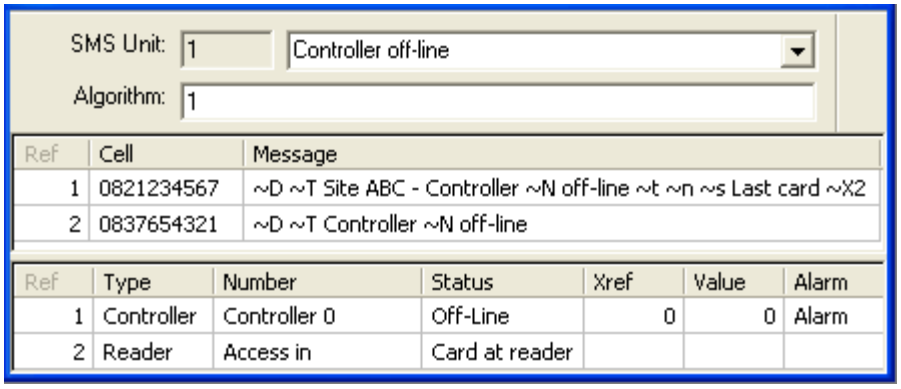
The SMS messages that are sent are set in the top block and are added by right clicking in the block and selecting **Add New Record**. The message can be set with data that references data to be automatically inserted when sent. The commands consist of a tilde (~) character, followed by a letter and could be followed by hash (#). With # used, the data is found using the current event, if # is used the data is found from the form the referenced trigger event (e.g. ~T3 uses the event type name from trigger number 3, not from the triggering, current event). The letter could be uppercase to reference to the descriptive name, e.g. entered, or lowercase to use the data not referenced, e.g. 22). If no reference name, the command is the same as the lower case. Commands available are:

~D	date (windows format from current PC), e.g. 2003-05-19.
~d	date (windows format from current PC).
~T	event type name from current event, e.g. reader.
~T#	event type name from trigger event #, e.g. reader.
~t	event type from current event, e.g. 1.
~t#	event type from trigger event #, e.g. 1.
~N	event number name from current event, e.g. front door.
~N#	event number name from trigger event #, e.g. front door.
~n	event number from current event, e.g. 2.
~n#	event number from trigger event #, e.g. 2.
~S	event status name from current event, e.g. entered.
~S#	event status name from trigger event #, e.g. entered.
~s	event status from current event, e.g. 22.
~s#	event status from trigger event #, e.g. 22.
~X	event Xref name from current event, e.g. Smith J.

Referencing card names, requires the setting 7019, SMS_CardRef, APP 8 in table RAM_GROUPS and 7019, DBT_CD, F_CD_NAME, F_CD_REF in table SQL_READ, both in database.mdb).

~X# event Xref name from trigger event #, e.g. Smith J.
~x event Xref from current event, e.g. 22.
~x# event Xref from trigger event #, e.g. 22.
~V event value name from current event, e.g. closed.
~V# event value name from trigger event #, e.g. closed.
~v event value from current event, e.g. 22.
~v# event value from trigger event #, e.g. 22.
~A event alarm name from current event, e.g. alarm.
~A# event alarm name from trigger event #, e.g. alarm.
~a event alarm from current event, e.g. 2.
~a# event alarm from trigger event #, e.g. 2.

For example:



When t4 x? s2 occurs (e.g. controller Entrance), Cell 082 1234567 will receive message
2003-05-12 Site ABC – Controller Entrance off-line t4 n1 s2 Last card Smith J
showing that J Smith was the last card through reader Access in.

A line is deleted by right clicking on the line and selecting **Delete records**.

Right click and selecting **Refresh (F5)**, updates the data on display, reading the data from the database.

Find (Ctrl+F) and **Find Next (F3)** enables the moving of the displayed data to the data searched for.

The **Modem Properties** menu selects the serial communications **Port** (none or 1,2,3,4), the Baud, Parity, Data bits, Stop bits and Flow control.

The optional **Log fields** that are logged are enabled by ticking the appropriate fields in the log fields set menu. Field description lists the general events that have data in these fields. See logging in SCS_Client for more details.

Changing the time and date of the local PC via the **Date and time properties** menu results in the change being sent to all PCs running linked Softcon SoftWin3 programs (connected to the same SCS_Server.exe application). The changed date/time is also sent to all controllers. PCs date/times are synchronized with the PC set as the **Master DT** (PC set-up) when the applications start and every 90 minutes thereafter. When PCs connect via the distribution server, date/time is set to that of the PC set as Master DT.

Note that changing the date/time via Windows applications will not result in the immediate sending of the changes to controllers or other PCs – this will only be done when the controllers are sent a set-up, become on-line, when applications start or when the automatic periodic synchronizations occur (once an hour for controllers, 90 minutes for PCs). The Windows time/date set applications should thus not be used and should be disabled via policy editors.

9 CALLER ID

The cell receiver functions as an access request reader, with the cell callers identified by searching in the cell phone field in the card database. Once found, all access control functions of the card holder are applied as if the access was requested by an access card.

The following must be set in the database configuration tables in C:\softwin3\config\database.mdb:

SQL_READ : Table

	ID	GROUP_ID	TABLE_ID	FIELDS_ID	WHERE_ID
	464	7032	DBT_CD	F_CD_REF	F_CD_PH_CELL

FIELDS : Table

	ID	TABLE_ID	NAME	TYPE	SIZE	DEFAULT	INDEX
	F_CD_PH_CELL	DBT_CD	PH_CELL	TEXT	15		2

RAM_GROUPS : Table

		ID	NAME	RAM_SIZE	SCS_APP
	+	7032	SMS_CardCel	-1	8

The cell number is entered in the card database with a leading zero, e.g. 0821234567.
The events generated are:

t16 nGsmRef s455 GSM initialization
t16 nGsmRef s454 Incoming call
t16 nGsmRef s456 Caller (card) not found (in field cell phone in the card database)

If the card is not found, the caller ID can be seen in the activity menu in SCS_CLIENT, z2 field (without the leading zero).

If the card is found, SCS_CLIENT will generate the appropriate reader event. If the card has access to the GSM linked reader (see SMS GSM set-up above), the card enabled event is: t1 nReaderRef s23 xCardRef, this event is typically used in event-event triggers to generate the appropriate output event (to open the barrier) and the card entered event (ensuring that the location now, APB, etc. of the card is updated and logged). The reader dB-location set-up should be set as PC (not controller-all).

10 TOOLS

Logon/off. Sets new operator.

Change Password. Changes the password of existing operators.

Menu Access. Administrators set the menus access groups have access to.

11 VIEW

Tool Bar displays the Tool bar. Clicking and dragging the tool bar can change the position of the tool bar. **Status Bar** displays information on options at the cursor at the bottom of the display.

12 WINDOW

The open windows are set to **Cascade**, **Tile Horizontally** or **Tile Vertically**.

13 HELP

This file is accessed via the help menu and **Help topics** provides a list of keywords for the search.

 **Help About** SCS_SMS displays general information about the SW version and links to the Softcon WWW.

 **Context help** is not available.