

WA Manager

Alarming System Management Software Windows 98, NT, XP, 2000 User Guide

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- 8.4.3 Delete a record

1. Introduction



Remote Alarming Stations

WA Manager is a database application for monitoring, archiving and managing of a distributed alarming system based on BSC-50 & SCOM-100 alarming units. The application supports:

- Creating, editing and uploading a device configuration. The configuration is done with simple selections and entries on the configuration forms. The parameter settings are stored and converted to ASCII SMS commands before uploading to the target device via the PC serial port.
- Archiving the Alarm & Status messages
- Real time monitoring of Alarm & Status events.
- Updating a remote stations configuration

The system software consists of two application programs:

- 1. A utility application (GSMServer.exe), running minimized for receiving SMS and creating respective files in an user selected directory.
- 2. The WA Manager data base application, which imports incoming SMS from the selected directory.

The two applications can run on the same or different computers in a local area network.

2. Installation & Setup

2.1 Installation

Open the Installation CD and Run the **WA Manager.exe** installation file. A WA Manager folder is created on your root directory after the installation completion.

WA Manager 1.8									
File Edit View Favorites	Tools	Help		🥂					
🚱 Back 🔹 🌍 🔹 🏂 Search 😥 Folders 🛛 🎹 🗸									
Address 🛅 C:\WA Manager 1.8	Address 🛅 C:\WA Manager 1.8 🗾 🕞 Go								
		Name 🔺	Size	Туре					
File and Folder Tasks	*	BURSR		File Folder					
🦂 Make a new folder		🚞 Win4DX		File Folder					
		ASIFONT.FON	25 KB	Font file					
Web		📃 asifont.map	1 KB	Text Document					
Share this folder		SINTPPC.DLL	976 KB	Application Extension					
		ASIPORT.RSR	56 KB	Structure resource file					
		SQTDP32.DLL	25 KB	Application Extension					
Other Places	*	💥 WA Manager.4DC	2,667 KB	4D Compiled database					
		WA Manager.4DD	1,408 KB	4D data file					
Local Disk (C:)		🛅 WA Manager.4DR	1 KB	Data resource file					
📋 My Documents		WA Manager.CMP	64 KB	CMP File					
🛅 Shared Documents		🧶 WA Manager.EXE	2,879 KB	Application					
👮 My Computer		🕘 WA Manager.RSR	1,926 KB	Structure resource file					
🧐 My Network Places									
Details	*	4							

⁽³⁾ Do not put the created folder on the desktop!

Select the file '**WA Manager.exe'** file and make a shortcut for it. Put the shortcut on your desktop. This is the executable file for the WA Manager application.

2.2 Setup

2.2.1 Creating a new data file

The data file selection form appears after launching the WA Manager application for the first time. Browse and open the **'WA Manager'** folder.

Open which d	atafile	? ×
Look in: [WA Manager 1.8 💌 🗲 🛍	💣 🎟 •
🛅 BURSR 🚞 Win4DX		
File name:	[]	Open
Files of type:	Data files 💌	Quit
		New

Click on the '**New**' button to create a new database file. Save the data file with the default naming by pressing the '**Save**' button.

Create a data	ı file					<u>?</u> ×
Save in: 🗀	WA Manager 1.8 💌	+	£	ď		
BURSR						
🚞 Win4DX						
I						
File name:	WA Manager.4DD				Save	
Save as type:	Data files		┓		Canc	el
	,			F	Solit	
				_	opiic.	

The application screen appears after a few seconds.

2.3 How to proceed

If you intend to configure a device proceed as follows:

- 1. Populate the General User List (See Chapter 3)
- 2. If you want to use custom alarm messages, populate the Alarm Message List (See Chapter 3)
- 3. For the BSC-50 device configuration refer to Chapter 5, Section 5.2.
- 4. For the SCOM-100 device configuration refer to Chapter 5, Section 5.3.

If you intend to use the real time Alarming System:

- 1. Configure the alarming devices.
- 2. Install and execute the GSM Server utility (Seee Chapter 6, Section 6.1)
- 3. Select the appropriate Application Parameters (See section 6.2)
- 4. Read sections 6.3, 6.4, 6.5 and Chapter 8.

3. Creating a General User list

The General User List refers to the whole distributed system and not to a specific alarming device.

۵ ۷	/A Ma	nager					
File	Edit	Events	Utilities	Help			
St	ations						
		1 I 1 i					
6	enerai	User List					
A	Alarm message List						
Application parameters							
Q	uit						

Select the 'General User List' menu to open the General User list table.

	Coning Device	Alarm Recipient	MZM	Lomments
	ļ			
	••••••••••••••••••••••••••••••••••••••			
	•			

3.1 Creating a new User

File Edit Utilities Help						
🛄 User List: Default view						
Records: 0 in file, 0 in list		cord				
User ID Name	Phone	Lontig Users	Config Device	Alarm Recipient	M2M	Comments
		•	•			
		• •				

Click on the '**New record**' button to create a new User. The User List entry form opens:

▶	User List			1 of 1
	Update Station)	966	1 🗙 🕼
	ID	35		
	Name New	User		
	Phone			
	User flags			
	Config Users	🔘 Yes	s 🖲 No	
	Config Device	🔘 Yes	s 🖲 No	
	Alarm recipient	🔘 Yes	s 🖲 No	
	M2M	🔘 Yes	s 🖲 No	
	Comments			A
				-

The form contains the following entries:

- User name: A string up to 15 characters
- **Phone number**: A string up 15 characters
- Four User Flags that represent user rights and user status.
- Config users: 'Yes' for System Administrator, 'No' for Normal User.
- Config device: 'Yes' for the ability to change the device configuration (via SMS).
- Alarm recipient: Marks a User as an Alarm SMS recipient.
- **M2M**: 'Yes' for a remote machine recipient (as SCOM-100), 'No' for a normal Phone recipient
- Enter the appropriate data and click on the '**Save**' button to close the entry form. The new user appears in the User List.

File Edit	Utilities Help						
📕 User L	ist: Default view						_ 🗆 🗙
		D¢Ĉ	1				
Records: 1	in file, 1 in list		-				
User ID	Name	Phone	Config Users	Config Device	Alarm Recipient	M2M	Comments
3	George P	6974788665	No	No	Yes	No	<u> </u>
							-

3.2 Managing the User List

You can edit or remove records from the User List using the respective buttons:

F	ile Edit	Utilities Help						
	🚊 User Li	ist: Default view						
	k. 😻 Records: 3	in file, 3 in list) lit record				
	User ID	Name	Phone	Config Users	Config Device	Alarm Recipient	M2M	Comments
I	4	George P	6947866454	Yes	No	Yes	No	
	5	SCOM100_1	6974566833	No	No	No	Yes	
	6	SCOM100_2	6974577410	No	No	No	Yes	
11.								

File Edit	Utilities Help						
🔜 User L	ist: Default view						
N. 2.							
Records: 3	in file, 3 in list		Delete rec	ord			
User ID	Name	Phone	Contig Users	Config Device	Alarm Recipient	M2M	Comments
4	George P	6947866454	Yes	No	Yes	No	
5	SCOM100_1	6974566833	No	No	No	Yes	
6	SCOM100_2	6974577410	No	No	No	Yes	
			•	•			

If a User is removed from the System User list, all occurences of this user in remote Stations configurations as User and/or recipient will also be removed: Click on the 'Delete record' button:



Click on the 'OK' button.



Click on the 'No' button.

4. Creating an Alarm Message List

The Alarm Message List refers to the whole distributed system and not to a specific alarming device.



Select the 'Alarm Message List' menu to open the Alarm Message table.

File Edit	Utilities Help	
🛄 Alarm	Message List: Default view	<u> </u>
MenalD	Manager M	Commente
Messib	message	Comments
		<u> </u>
	•	
	ļ	

3.1 Creating a new Alarm Message

File Edit	Utilities Help
📕 Alarm	Message List: Default view
Records: 0	t in file, 0 in list 📃 💊 New record
MessID	Message
	§

Click on the **'New Record'** button to create a new Alarm message. The Alarm Message List entry form opens:

🚊 Edit A	larm Message	:	
	Alarm Messa	ges	1 of 1
	Message ID	3	
	Contents	High Level Alarm	
	Comments	Message to a Phone Recipient	▲ ▼

Enter the Message text in the field '**Contents'** and the respective optional comments. Click on the '**Save**' button to close the entry form. The new message appears in the Message List.

In case of a M2M Alarm message replace the ';' character (Semicolon) with the "#" character.

Example:

Instead of: 1000,0,1;1000,1,3 type 1000,0,1#1000,1,3

File Edit	Utilities Help					
🔜 Alarm	🚊 Alarm Message List: Default view					
N.		DEÎ				
Records: 2	in file, 2 in list					
MessID	Message	Comments				
1	1000,0,3	Set Output 0.3 on a SCOM-100 device				
2	High Level Alarm	Message to a Phone recipient				
	•					
	•					

4.2 Managing the Alarm Message List

You can change user data or remove a Message from the List by using the respective buttons:

File Edit	Utilities Help	
📕 Alarm	Message List: Default vi	iew
N .		
Records: 2	in file, 2 in list	Edit record
MessID	Message	Comments
MessID 1	Message 1000,0,3	Comments Set Output 0.3 on a SCOM-100 device
MessID 1 2	Message 1000,0,3 High Level Alarm	Comments Set Output 0.3 on a SCOM-100 device Message to a Phone recipient
MessID 1 2	Message 1000,0,3 High Level Alarm	Comments Set Output 0.3 on a SCOM-100 device Message to a Phone recipient

	File	Edit	Utilities	Help		
	<u>i</u>	larm	Messag	e List: Defa	ult vi	iew .
	N.			PH		DØØ
I	Reco	rðs: 2	' in file, 2	' in list		
	Me	ssID	Messag	ge		Comments
		1	1000,0,3	3		Set Output 0.3 on a SCOM-100 device
		2	High Le [,]	vel Alarm		Message to a Phone recipient
			•			
ľ			•••••			

An Alarm Message cannot be removed from the List if it is used in a Station configuration.



5. Managing Stations

All remote stations of a distributed alarming system must be declared in a Stations list.



Select the 'Stations' menu to open the Stations list form:

👶 WA Manager			
File Edit Events (Utilities Help		
🔜 Stations: Defau	lt view		
		e	
ID Tune	Station Name	Tel Number	Comments
		•	
		•••••••	

5.1 Creating a new Station

👶 W A	Manager			
File E	Edit Events	Utilities Help		
🚊 St	ations: Defa	ult view		
			e	
Recor	de: O in file, O i	n list Add Station	_	
ID	T	CLAR N	T 1 51 1	
10	туре	Station Name	i el. Number	Comments
	Туре	Station Name	l el. Number	L'omments
	Туре		i el. Number	
	Туре		i el. Number	
	Туре		Tel. Number	
	Туре		lei. Number	

Click on the 'Add Station' button to create a new Station.

🔚 Select Device Type		×
● BSC-50-D → BSC-50-E		
	Cancel OK	

Click on the 'OK' button.

The configuration form opens. The only entry which is mandatory for the distributed alarming system is the '**Phone number**' entry. The WA Manager identifies a station of a distributed system through the its phone number.

All other entries on the form are intended for configuring the BSC-50 device and are optional.

Edit Station		<u> </u>
Configurations 1 of 1	Update Station	×
General Users Digital IN]
ID 77 Phone number 6974322034 Type BSC-50-D		
Station name B-138		
PIN number Verbose response 🕱 Merge alarms 🕱		
Available SMS alarm limit O SMS counter preset 0		
Retries 3 Retry delay [sec] 10		
Status Message period [Days] 7 Status Idle Time period [sec] 120		
Comments		
	-	

If you intend to setup a BSC-50 unit using the Hyperterminal or via SMS, enter the 'Phone number' and any optional comments for the respective station and click on the 'Save' button to declare the new station. The new station appears in the Station list.

🚊 Sta	ations: Default view		
		🖅 🛒 🚊	
Records	: 3 in file, 3 in list		
ID	Station Name	Tel. Number	Comments
1	A-154	6946775883	<u> </u>
2	A-235	6946770620	
3	B-138	6974322034	
		•	\$

5.2 BSC-50 Configuration

5.2.1 General settings

Edit Station		<u> </u>
Configurations 1 of 1	Update Station	
General Users Digital IN		
ID 77 Phone number 6974322034 Type BSC-50-D		
Station name B-138		
PIN number Verbose response 🕱 Merge alarms 🕱		
Available SMS alarm limit O SMS counter preset O		
Retries 3 Retry delay [sec] 10		
Status Message period [Days] 7 Status Idle Time period [sec] 120		
Comments		
	_	

General settings, appearing on the first page, include (See the respective BSC-50 device parameters):

- 1. Station name.
- 2. Optional PIN number.
- 3. Verbose or brief response flag.
- 4. Enable/disable alarm merging flag.
- 5. Available SMS counter and respective low alarm limit.
- 6. Retries on SMS transmission failure.
- 7. Delay between retries.
- 8. Period for the Status messaging.
- 9. Status Idle Time period.

5.2.2 Selecting the Station Users

Click on the '**Users**' Tab on the Entry form.

Edit Station	1						<u> </u>
Configuration	ons	1 of 1			Ľ		1
General Use	rs Digital IN						
E.	2			_	User selection		
User ID	Name	M2M D	evice		George P SCOM100_1	*	
				đ	SCOM100_2 Add User		

The entries of the System User List appear in a selection list on the right. Select a user on the User selection list and click on the '**Add User'** Button.

A pop up form appear for specifying a User ID in the range 1-20:

🔛 New user message		×
New user ID		
	Cancel OK	

Press the 'OK' button.

The selected User appears in the Station User list on the left:

Configurations	:	1 of 1			()	
General Users	Digital IN					
C	2			U:	ser selection	
User ID Na	ime	M2M De	vice	🔳 🗔	eorge P	A
1 SC	:OM100_1	Yes	A		COM100_1	
					.0M100_2	

Use the 'Delete record' button to remove a User from the Station User list:

🔜 Edit Station	1					_ 🗆 🗵
Configuration	ons	1 of 1			6 6 6] 🔊 🗙 🔊
General Use	rs Digital IN					
E.	2				User selection	
User ID	Name	N	M2M Device	≡ +	George P	
	SCOM100_1			Î	SCOM100_2	
					Delete Record	
			-			
	·					

5.2.3 Configuring the digital inputs

Click on the 'Digital IN' Tab on the Entry form:

Edit Station						_ 🗆
Configurations	1 of 1			🗌 Upd	ate Station	×
General Users Digital IN Ar	nalog IN					
Alarm recipients	Defaults		—— Alarm mes	ssages ————		
n Name	Alarm mode Tran:	sition M2M Positive AM	M2P Positive AM	M2M negative AM	M2P negative	AM
1 DI1	° 🖬 📝	No message 🖂	No message 🔽	No message	No message	
2 DI 2		No message 🔳	No message	No message	No message	
3 DI 3		No message 🔳	No message	No message	No message	
4 DI 4		No message 🔳	No message	No message	No message	
				•		Þ

The configuration form for the digital inputs of a BSC-50 unit contains following fields:

- 1. Digital input naming.
- 2. Alarm mode: positive transition, negative transition, both transitions.
- 3. Alarm delay in seconds.
- 4. Optional alarm messages for the positive and the negative transition (Machine to Person, Machine to Machine).

Enter data by double clicking the respective column cell in case of entering a string or a numerical value or by clicking on the pull down menus for the alarm messages.

Alarm mode:

Ē.	dit S	tation			
C	onfig	gurations	1 of 1		
ធ	enera	I Users Digital IN An	alog IN		
	<u> </u>		Defaults	<u>ר</u>	
				_	
	n	Name	Alarm mode	Transition	M2M Positive AM
	1	DI 1	°		No message 💌
	2	DI 2	0	1 2	No message
	3	DI 3			No message

Select the transition for alarm triggering via the pull down menu:

l	E	dit S	tation			
[C	onfig	gurations	1 of 1		
	Ge		Il Users Digital IN Ana	alog IN Defaults]	
	[n	Name	Alarm mode	Transition	M2
		1	DI 1	1 💌	11	No
		2	DI 2	0		No
		~	DI O	~	× /	

M2M Message: Select a message for a M2M recipient (e.g. a SCOM-100 device) via a pull down menu, which contains all available message texts of the General Alarm message list:

🚊 Ed	lit S	tation							
Co	onfi	gurations	1 of 1					🗌 Upd	late
Ge	nera	al Users Digital IN An	alog IN						
		Alarm recipients	Defaults				—— Alarm mes	ssages ————	
	n	Name	Alarm mode	Transition	M2M Positive	AM	M2P Positive AM	M2M negative AM	M2
	1	DI 1	1	أ 1	No message		No message	No message	No
	2	DI 2	°		No message	F	No message O: No message	No message 🔄	No
	3	DI 3	0		No message	6	63: 1010,0,4,720 64: DI 1 Alarm 65: DI 2 Alarm	0#1010,0,2,2	
	4	DI 4	0		No message	6	67: BPAXYKYKΛΩ 71: DI 3 Alarm	ΜΑ ΣΤΗ ΓΡΑΜΜΗ Α	F
	•						72: DI 1 Alarm		
				0 00000		7	73: DI 1 Recover 74: Low Level Ala	rm	
			E -	AL.			75: High Level Ala	irm	

M2P Message: Select a message for a Phone recipient via the respective pull down menu:

Edit Station					<u> </u>
Configurations	1 of 1			Update Station	×
General Users Digital IN Analog	gIN				
Alarm recipients	Defaults		Alarm messages —		
Alarm mode Transition M	12M Positive AM	M2P Positive AM	M2M negative AM M2P negative AM	Delay [sec]	
	lo message	No message	No message No message	3	
	lo message 💌	No message	63: 1010,0,4,7200#1010,0,2,2 64: DI 1 Alarm	3	
	lo message 💌	No message	65: DI 2 Alarm 67: ΒΡΑΧΥΚΥΚΛΩΜΑ ΣΤΗ ΓΡΑΜΜΗ Α 71: DI 3 Alarm	3	
	lo message 💌	No message	72: DI 1 Alarm 73: DI 1 Recover	3	
			74: Low Level Alarm 75: High Level Alarm		

Delay: Double click in the respective cell and type in the Alarm delay for alarm state recognition. Specifying the alarm recipients for the selected DI alarm:

Click on the 'Alarm recipients' button. The Recipient List for the selected DI alarm opens:



Select a Station User in the '**Recipient list**' on the right and click on the '**Add recipient**' button to add the respective user in the DI Alarm recipient list.

🚊 Reci	ipients for alarm: DI 1	L			×
- Pil	C.			Recipient list	
ID	User			SCOM100_1	*
	2 George P	<u>^</u>	≣+	George P BSC Manager	
			Ā		
			L CO		

5.2.4 Configuring the analog inputs (BSC-50-E)

onfigurati	ons	1	of 1] Update Sta	ition 🔀
neral Use	ers Digital IN	Analog I	N									
				_		— B	ange pre	set buttons -				
4	Alarm recipients	5		4-20mA	0-20m	A	0-1V		Defaults			
n Name		4	/lode U	Init	Scale lo	w Sca	le high	Sensor low	Sensor high	Alarm low	Alarm high	Delay [sec]
1 AI 1						0	4,095	(0 4,095	0	4,095	0
2 AI 2		- IN	/ 🔳	· ·		0	4,095	(D 4,095	0	4,095	0
										·		
4500]				
4500												
4500 4000 3500												
4500 4000												
4500 4000 3500 2500												
4500 4000 3500 2500 2000												
4500 4000 3500 2500 2500 1500												
4500 4000 3500 3000 2500 1500												
4500 4000 3500 2000 1500 1500 500												
4500 4000 3500 2500 2000 1500 500												

The analog input configuration includes following parameters:

- 1. Analog input naming.
- 2. Physical measurement unit.
- 3. Scale low: Low scale value in physical units.
- 4. Scale high: High scale value in physical units.
- 5. Sensor low: Low raw scale value (0-4095)
- 6. Sensor high: High raw scale value (0-4095)
- 7. Alarm low: Value between scale low and high indicating the low alarm limit.
- 8. Alarm high: Value between scale low and high indicating the high alarm limit.
- 9. Alarm delay in seconds.
- 10. Optional alarm messages for overstepping the alarm limits.

Enter data by double clicking the respective column cell in case of entering a string or a numerical value or by clicking on the pull down menus for the alarm messages.

Analog input mode

The selection must correspond to the wiring option of the respective analog input on the main unit and the mode DIP switch settings on the AI-4 expansion module.

Edit Station									_	
Configurations	1 of 1] Update Sta	tion 🔀	
General Users Digital IN Analo	ig IN									
Alarm recipients		4-20mA	0-20mA	- Range pre	eset buttons —	Defaults				
n Name	Mode	Unit	Scale low	Scale high	Sensor low	Sensor high	Alarm low	Alarm high	Delay [sec]	M2
1 AI1	V	. v 🔽	0	4,095	0	4,095	0	4,095	0	
2 AI 2	VE	i 🗖	0	4,095	0	4,095	0	4,095	0	
	J								· · · ·	►

Example: Connecting a level sensor with 0-20mA output on AI 1. Select 'C' (Current mode) on the first channel and press the '0-10V' button to configure the scale and sensor values for a sensor with 0-10V output:

Edit Station									_ 🗆 2
Configurations	1 of 1] Update Sta	tion 🗙 🖏
General Users Digital IN Analog	JIN								
Alarm recipients		4-20mA	0-20mA	- Range pre	preset buttons	Defaults s to set scale			
n Name	Mode	Unit	Scale low	ow/high and	sensor low/hig	3h	Alarm low	Alarm high	Delay [sec] M2
1 AI 1	C 🗖			automatically	on the selecte	a channell. J	0	0	0
2 AI 2	V 💌	💌	0	4,095	0	4,095	0	4,095	0
									Þ

The scale (0-20) and the raw scale values are set automatically.

Anal	og input configuration										_ [] >
Alarm recipients				Range preset buttons 4-20mA 0-20mA AD592 0-10V 0-5V 0-1V Defaults					Defaults		
n	Name	Mod	e Unit		Scale low	Scale high	Sensor low	Sensor high	Alarm low	Alarm high	Delay [sec]
1	AI 0.1	V (- V		0	10	0	4,095	0	10	0
2	AI 0.2	C (•		0	4,095	0	4,095	0	4,095	0
-											
											Þ

Select a physical unit and enter Scale low and high according to the sensor scale.

COI	M-100 Main unit, m=0	Alarm recipients		-20mA	20mA AD	nge preset but	tons 0V 0-5V	/ 0-1\		Defaults
n	Name	Mode	Unit	Scale low	Scale high	Sensor low	Sensor high	Alarm low	Alarm high	Delay [sec]
1	AI 0.1	V 🔽	cm 🔽) 0	1,200	0	4,095	0	1,200	0
2	AI 0.2	С 💌	💌) 0	4,095	0	4,095	0	4,095	0

Now enter the alarm limits:



The diagram shows the analog input conversion characteristic and the respective alarm limits. Use the '**Default**' button to restore the default settings for a selected channel.

Edit Station			
Configurations	2 of 2		🗆 Update Station 🛛 🔀 🕼
General Users Digital IN Analo	og IN		
Alarm recipients	4-20mA) 0-20mA	Range preset buttons O-1∨ Default	Press this button to set the default values
n Name	Mode Unit Scale low	Scale high Sensor low Sensor high	Alamnow Alamningh Delay [sec]
1 AI1		0 1,200 0 4,09	5 250 1,050 0
2 AI 2	V 💌 💌 🔹	0 4,095 0 4,095	5 0 4,095 0
	<u> </u>	· · ·	

5. Now select the 4 optional alarm messages for low and high alarm (Machine to Person, Machine to Machine).:

Edit Station					
Configurations	2 of 2			🔲 Update Station	×
General Users Digital IN	Analog IN]
				-	
Alarm recipients	4-2	0mA 0	-20mA 0-1V D	efaults	
Delay [sec] M2P Low MI	D Message		M2P High MID Message	M2M Low MID Message	
0 0	No message	E	0: No message		
	No message		63: 1010,0,4,7200#1010,0,2,2		
			64: DI 1 Alarm		▶
			65: DI 2 Alarm		
			67: ΒΡΑΧΥΚΥΚΛΩΜΑ ΣΤΗ ΓΡΑΜΜΗ Α		
		:	71: DI 3 Alarm		
			72: DI 1 Alarm		
1000 +			73: DI 1 Recover		
900 +			74: Low Level Alarm		
800 +		······	75: High Level Alarm		

Click on the 'Alarm recipients' button. The Recipient List for the selected Al alarm opens:

Recipients for alarm: AI 1		×
	Recipient list	
ID User	George P	~
		-

Select a Station User in the '**Recipient list**' on the right and click on the '**Add recipient**' button to add the respective user in the DI Alarm recipient list.



5.3 SCOM-100 Device Configuration

5.3.1 General settings

Edit Station		×
Configurations 1 of 1		D
General Users ID 84 Phone number Comments]	٦
Station name SCOM-100 Description Remote control unit PIN number Verbose response X Merge alarms X Available SMS alarm limit 0 SMS counter preset Image: SMS counter preset Image: SMS counter preset	it GPRS	
Select module > DI0-42 Module Function m DIP switch	Select Configure 1/0	
SCOM-100, Main unit Module 1/0: 4 DI, 4 DD, 2 Al	Digital inputs Digital outputs Analog inputs	
	I/O Functions Schedules	
	T	
	<u></u>	

General settings include:

- 1. Station name and description
- 2. Optional PIN number
- 3. Verbose or brief response
- 4. Enable/disable alarm merging
- 5. Available SMS counter and respective low alarm limit.

5.3.2 Selecting the device I/O expansion

Select module >	Dexpansion selection Remove mod Add module	lule Chang	ge module address		
Module	DIO-42 Al-4	m	DIP switch	Select	
	SCOM-100, Main unit Module I/O: 4 DI, 4 DO, 2 AI	0		÷	_

Select an I/O expansion module and click on the 'Add module' button to add the module to the configuration:

Select module > DIO-42 ■ 🗊 🖸									
Module	Function	m	DIP switch	Select					
	SCOM-100, Main unit Module I/O: 4 DI, 4 DO, 2 AI	0		÷	4				
	DIO-42, Digital I/O expansion unit Module I/O: 4 DI, 2 DO	1	ON 1 2 3		~				

The '**Dip switch**' column illustrates the DIP switch settings you must set on the rear side of the module. You can change the module address number by clicking on the '**Change module** address' button.

Select an I/O expansion module and click on the '**Add module**' button to add the module to the configuration:



The '**Dip switch**' column illustrates the DIP switch settings you must set on the rear side of the module. You can change the module address number by clicking on the '**Change module** address' button.

5.3.3 Selecting the Station Users

Click on the '**Users**' Tab on the Entry form.

Configurati	ons	4 of 4						
ieneral Use	are							
E	Ż						11	
100 July 10-1000	· · · · · ·					_	User selection	
User ID	Name	Admin	Dev. Conf.	Recipient	M2M	=+	George	<u></u>
User ID	Name	Admin	Dev. Conf.	Recipient	M2M		George Theo WA Manager	<u>*</u>
User ID	Name	Admin	Dev. Conf.	Recipient	M2M		George Theo WA Manager	<u> </u>

The entries of the System User List appear in a selection list on the right. Select a user on the User selection list and click on the '**Add User'** Button.

A pop up form appear for specifying a User ID in the range 1-20:

New user message		×
New user ID	1	
	Cancel OK	

Press the '**OK**' button.

The selected User appears in the Station User list on the left:

١.	Edit Station								
	Configuratio	DNS	4 of 4						×
	aeneral Use	rs							
	1.	<u> </u>					1	User selection	
	User ID	Name	Admin	Dev. Conf.	Recipient	M2M	≡+	George	<u>^</u>
	1	George	No	Yes	Yes	No 📥		I heo WA Manager	
								1994 2007 6 7 5 in	

Use the 'Delete record' button to remove a User from the Station User list:



5.3.4 Digital input configuration

Select the respective I/O module (Main unit or expansion) and click on the '**Digital input**' button to open the digital input configuration:

🚊 Digil	al input configuration								<u>_ </u>	
sco	M-100 Main unit, m=0	(Alarm recipier	its	(Defaults Optiona	l alarm i	messages ———		
n	Name	Alarm mode	Alarm transition	Delay [sec]	0 > 1	Alarm message	1>	0 Alarm messag	e	
1	DI 0.1	° 🖸	174	3	0	No message		0 Nomessage		
2	DI 0.2	0		3	0	No message		0 No message		
3	DI 0.3	0 💌		3	0	No message		0 No message		
4	DI 0.4	0 🗖	174	3	0	No message		0 No message		
	SCOM-100 DIO-42 \$\frac{1}{2} \frac{1}{2} \									

The digital input configuration contains following parameters:

- 6. Digital input naming.
- 7. Alarm mode: positive transition, negative transition, both transitions.
- 8. Alarm delay in seconds.
- 9. Optional alarm messages for the positive and the negative transition.

Digital input name

Double click on the respective '**Name**' column cell to enter name for the digital input channel.

Alarm mode

Click on the '**Alarm mode**' pull down menu handle to select the active alarm transition: 0. No alarm

- 1. Alarm on positive transition
- 2. Alarm on negative transition
- 3. Alarm on both transitions

Digit	al input configuration								
		(Alarm recipier	its	(Defaults			
sco	M-100 Main unit, m=0					——— Optional al	arm me:	ssages ———	
n	Name	Alarm mode	Alarm transition	Delay [sec]	0 > 1	Alarm message	1>0	Alarm message	
1	DI 0.1	0	0	3	0	No message	0	No message	
2	DI 0.2	06	1	3	0	No message	0	No message	
3	DI 0.3		1	3	0	No message	0	No message	
4	DI 0.4	0 💌	1	3	0	No message	0	No message	

Alarm delay

Double click on the respective '**Delay**' column cell to enter the alarm delay in sec for the digital input channel.

Alarm messages

Alarm messages for the positive and netative transition can be selected by clicking on the respective pull down menu buttons. The menus contain the alarm message texts containd in the alarm message list.



Select a DI channel and click on the '**Default**' button to restore the default settings for the respective channel:

📕 Digit	al input configuration							[<u>- 0 ×</u>
		(Alarm recipier	its	(Defaults	rm mes	sades	
SCO	M-100 Main unit, m=0								
n	Name	Alarm mode	Alarm transition	Delay [sec]	0 > 1	Alarm message	1 > 0	Alarm message	2
1	DI 0.1	3 💌	<u>'</u> t't.	3	0	No message	0	No message	
2	DI 0.2	1	11	3	67	Pump Fault 🔽	0	No message	
3	DI 0.3	0	1	3	0	No message	0	No message	
4	DI 0.4	0		3	0	No message 💌	0	No message	

Digit	tal input configuration	1							_ 🗆
		(Alarm recipier	its	(Defaults			
SCO	M-100 Main unit, m=0					Optional a	larm me:	ssages ———	
n	Name	Alarm mode	Alarm transition	Delay [sec]	0 > 1	Alarm message	1>0	Alarm message	е
1	DI 0.1	3 🗖	<u>'</u> t't.	3	0	No message	0	No message	
2	DI 0.2	0	174	0	0	No message	0	No message	
3	DI 0.3	0	174	3	0	No message	0	No message	
4	DI 0.4	0	174	3	0	No message	0	No message	

Select a digital input with alarm configuration and click on the 'Alarm recipients' button. The Recipient List for the selected DI alarm opens:

🛄 Digit	al input config	uration					
		Red	ipients for alarm: DI 0.1		×		
SCO	M-100 Main unit,	rr 🛒	C	Recipient list		ssages ———	
n 1	Name DI 0.1	ID	User	WA Manager Theo	<u> </u>	Alarm message No message	
2	DI 0.2			George		No message	
3	DI 0.3			 		No message	
4	DI 0.4			 		No message	
					-		

Select a Station User in the '**Recipient list**' on the right and click on the '**Add recipient**' button to add the respective user in the DI Alarm recipient list.

Recipients for alarm: DI 0.1		×
ID User 2 Theo	Recipient list WA Manager Theo George	4

5.3.5 Analog input configuration

Select the respective I/O module (Main unit or expansion) and click on the 'Analog input' button to open the analog input configuration:

🔜 Ar	nalog ir	nput c	onfig	uratio	n												
S	COM-10	0 Main	(n unit, r	Ala n=0	arm rec	ipients	;	4-	20mA	0-20	DmA AD	nge preset but	ttons 0V 0-5\	/ 0.1		De	efaults
	n Nar	ne				Mode	Unit		Scale lov	w 9	Scale high	Sensor low	Sensor high	Alarm low	Alarm h	igh D	elay [sec]
	1 AI ().1				V 🔽	1			0	4,095	0	4,095	0	4,	,095	0
	2 AI (0.2				С 🗖	<u> </u>			0	4,095	0	4,095	0	4,	,095	0
										_							
																	<u> </u>
	4500 - 4000 - 3500 - 2500 - 2500 - 1500 - 1500 - 500 - 0 -	0	500	1000	1500	2000	2500	3000	3500 40				SCOI Voltage 0-10V → IA+ 1B+ A	M-100 ↔ option → 0-4095 11- Al2+7	A12-		

The analog input configuration includes following parameters:

- 11. Analog input naming.
- 12. Physical measurement unit.
- 13. Scale low: Low scale value in physical units.
- 14. Scale high: High scale value in physical units.
- 15. Sensor low: Low raw scale value (0-4095)
- 16. Sensor high: High raw scale value (0-4095)
- 17. Alarm low: Value between scale low and high indicating the low alarm limit.

- 18. Alarm high: Value between scale low and high indicating the high alarm limit.
- 19. Alarm delay in seconds.
- 20. Optional alarm messages for overstepping the alarm limits.

Enter data by double clicking the respective column cell in case of entering a string or a numerical value or by clicking on the pull down menus for the alarm messages.

Analog input mode

The selection must correspond to the wiring option of the respective analog input on the main unit and the mode DIP switch settings on the AI-4 expansion module.

Analo	Dig input configuration	ecipients	4	20mA) [0-	20mA AC	nge preset but 1592 0-1	tons	0-1		_ Defaults
n	Name	Mode	Unit	Scale low	Scale high	Sensor low	Sensor high	Alarm low	Alarm high	Delay [sec]
1	AI 0.1	V 🗖		0	4,095	0	4,095	0	4,095	0
2	AI 0.2	CE		0	4,095	0	4,095	0	4,095	0

Example: Connecting a level sensor with 0-10V output on AI 0.1.

Select 'V' (Current mode) on the first channel and press the '0-10V' button to configure the scale and sensor values for a sensor with 0-10V output:

;CO	M-100 Main unit, m=0	larm recipients	4.2	20mA 0-3	20mA AD	nge preset buti	ton OV	0-5V 0-1V Defaults
n	Name	Mode U	nit	Scale low	Scale high	Sensor low	Se	Use the range preset buttons to set [sec]
1	AI 0.1	V 🔽		0	4,095	0		automatically on the selected
2	AI 0.2	C 💌		0	4,095	0		channell.

The scale (0-10) and the raw scale values are set automatically.

CO	4 M-100 Main unit, m=0	larm recipient	5	4.	20mA 0-	20mA AD	nge preset but	tons	/ 0-1\		Defaults
n	Name	Mode	Unit		Scale low	Scale high	Sensor low	Sensor high	Alarm low	Alarm high	Delay [sec]
1	AI 0.1	V 🖸	a v		0	10	0	4,095	0	10	0
2	AI 0.2	C]		0	4,095	0	4,095	0	4,095	0

Select a physical unit and enter Scale low and high according to the sensor scale (Level sensor:

СОІ	Ala M-100 Main unit, m=0	rm recipie	nts		Range preset buttons 4-20mA 0-20mA AD 592 0-10V 0-5V 0-1V Defau							Defaults
n	Name	Mo	de	Unit		Scale low	Scale high	Sensor low	Sensor high	Alarm low	Alarm high	Delay [sec]
1	AI 0.1	V		cm		0	1,200	0	4,095	0	1,200	0
2	AI 0.2	С	▼	20		0	4,095	0	4,095	0	4,095	0

Now enter the alarm limits:



The diagram shows the analog input conversion characteristic and the respective alarm limits. Use the '**Default**' button to restore the default settings for a selected channel.

COI	M-100 Main unit, m=0	Alarm recipie	nts	4-2	Range preset buttons 4-20mA 0-20mA AD592 0-10V 0-5V 0-1V C						
n	Name	Mo	de Un	nit	Scale low	Scale high	Sensor low	Sensor high	Alarm low	Alarm high	Delay [sec]
1	AI 0.1	V -	🔽 cm		0	1,200	0	4,095	0	1,200	0
2	AI 0.2	С	•		0	4,095	0	4,095	0	4,095	0

Click on the 'Alarm recipients' button. The Recipient List for the selected Al alarm opens:

Rec	ipients for alarm: AI 0.1		×
	User User	Hecipient list	~

Select a Station User in the '**Recipient list**' on the right and click on the '**Add recipient**' button to add the respective user in the DI Alarm recipient list.

Recip	ients for alarm: AI 0.1		×
1		Recipient list	
ID	User	WA Manager	*
3	George P		

5.3.6 Digital output configuration

Select the respective I/O module (Main unit or expansion) and click on the '**Digital outputs**' button to open the digital output configuration:

Digita	l output configuration							l ×
	SCOM-100 Main (unit, m=0		Defaults				
n	Name	Startup state	Contact	Mode	Schedule ID	On duration	Off duration	1
1	DO 0.1	0	*	R: Remote output	0	0	0	
2	DO 0.2	0	*	R: Remote output	0	0	0	
3	DO 0.3	0	*	R: Remote output	0	0	0	
4	DO 0.4	0	*	R: Remote output	0	0	0	
			Mp Ph	SCOM-100 DIO-42				-

The digital output configuration facilitates the entry of output parameters and functions:

- 1. Digital output naming.
- 2. The output start up state (closed or open contact).
- 3. Configuration of the Time schedule and Multivibrator functions.

Digital output name

Double click on the respective '**Name**' column cell to enter name for the digital output channel. *Start up state*

Click on the 'Startup state' pull down menu handle to select the output start up state:

Digita	l output configuration						_ 🗆
	SCOM-100 Main (unit, m=0		Defaults			
n	Name	Startup state	Contact	Mode	Schedule ID	On duration	Off duration
1	DO 0.1		••	R: Remote output	0	0	0
2	DO 0.2	0	1	R: Remote output	0	0	0
3	DO 0.3	0	*	R: Remote output	0	0	0
4	DO 0.4	0	*	R: Remote output	0	0	0

Time schedule function

Click on the '**Mode**' pull down menu handle to select the output function and select 'Time scheduled':

🛄 D	igita	loutput configuration						_0
		SCOM-100 Main u	unit, m=0		Defaults			
	n	Name	Startup state	Contact	Mode	Schedule ID	On duration	Off duration
	1	DO 0.1	1	‡	T: Time scheduled	°	1	0
	2	DO 0.2	0	*	R: Remote output	0	2 0 3 4	0
	3	DO 0.3	0	*	R: Remote output	0	5 0	0
	4	DO 0.4	0	*	R: Remote output	0	0	0

Select the ID of a previously set time schedule program ID to establish the Time schedule function for the respective digital output:

D i	igita	l output configuration							×
ļ		SCOM-100 Main t	ınit, m=0	C	Defaults				
[n	Name	Startup state	Contact	Mode	Schedule ID	On duration	Off duration	
	1	DO 0.1	1	‡	T: Time scheduled	3	0	0	
	2	DO 0.2	0	*	R: Remote output	0	0	0	
	3	DO 0.3	0	*	R: Remote output	0	0	0	
	4	DO 0.4	0	*	R: Remote output	0	0	0	

Multivibrator function

Click on the 'Mode' pull down menu handle to select the output function and select 'Multivibrator':

📕 Digit	al output configuration							<u>_ ×</u>
	SCOM-100 Main	unit, m=0		Defaults				
n	Name	Startup state	Contact	Mode		Schedule ID	On duration [min]	Off duration [min]
	1 DO 0.1	1	t	T: Time scheduled		3	0	0
			• •			R: Remote ou	itput	
	2 DO 0.2	°⊡	2	M: Multivibrator	٤,	T: Time sched M: Multivibrat	or 0	0
	3 DO 0.3	0	*	R: Remote output		0	0	0
	4 DO 0.4		*	R: Remote output		0	0	0

Now enter the On and Off duration values in minutes by double clicking on the respective column cells:

📄 D	igita	l output configuration							×
		SCOM-100 Main (unit, m=0		Defaults				
1 2	n	Name	Startup state	Contact	Mode	Schedule ID	On duration [min]	Off duration [min]	
	1	DO 0.1	1		T: Time scheduled	3	0	0	
	2	DO 0.2	°	*	M: Multivibrator	0	15	45	
	3	DO 0.3	0	*	R: Remote output	0	0	0	
	4	DO 0.4	0	*	R: Remote output	0	0	0	

Use the 'Defaults' button to set the default settings on a selected output channel.

5.3.7 Creating time schedule programs

Click on the 'Schedules' button to open the time schedule list:

📕 Time schedules	5					<u> </u>
A.	Data entry					
		Off dura	tion per step [min]	30		
	Program No>	1 <u>▼</u> Wo	k duration [hours]	0.0		
Comment	ts	3				
Day of the week	Active Period 1	4 nin] Period 2	ON [min] Period 3	ON [min] Period 4	ON [min] Period 5	
		7				
		9 💌				
		5 6 7 8 9 •				

Up to 80 time schedule programs can be entered, 10 programs for each day of a week (Sunday to Saturday), and 10 programs for a 'daily' schedule.

🚊 Time schedules											_	
Re	Data	entry										
	Progr	am No> 🚺	-	Off duratio Work	on per step duration [h	(min) 30 ours) ().0					
Comment	s											2
Day of the week	Active	Period 1	ON [min]	Period 2	ON [min]	Period 3	ON [min]	Period 4	ON [min]	Period 5	ON	
												Û

Click on the 'Add schedule' button to create a new schedule instance with ID=1:

Time schedules												<u>_ ×</u>
	Data	entry		Off duratio		Imin1 20						
Comment	Progr s	am No> 👖	•	Work	duration (h	ours]	.0					
Day of the week	Active	Period 1	ON [min]	Period 2	ON [min]	Period 3	ON [min]	Period 4	ON [min]	Period 5	ON] =+
Sunday	No	00:00 🔽	0	00:00 🔽	0	00:00 🔽	0	00:00 🔽	0	00:00 🔽	-	
Monday	No	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌		
Tuesday	No	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌		
Wednesday	No	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌		
Thursday	No	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌		
Friday	No	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌		
Saturday	No	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌		
Daily	No	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌		

A schedule program is illustrated in the following time diagram:



You can enter up to 8 on sequences. The entry form facilitates the entry by calculating the next time stamp according to the previous sequence duration and a selectable OFF duration intervall for each step.

Time schedules											ļ	<u>- 0 ×</u>
and a second	Data	entry		08.4		facial Control		•				
	Progr	am No> 🚺	-	Work	duration (h	ours]	.0					
Comment	s											
Day of the week	Active	Period 1	ON [min]	Period 2	ON [min]	Period 3	ON [min]	Period 4	ON [min]	Period 5	ON	■•
Sunday	No	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌	*	
Monday	No	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌		
Tuesday	No	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌		
Wednesday	No	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌		
Thursday	No	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌		
Friday	No	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌		
Saturday	No	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌		
Daily	No	00:00 🔽	0	00:00 🔽	0	00:00 🔽	0	00:00 🔽	0	00:00 🔽		

Enter a value for the OFF duration per step, e.g. 30 minutes.

The 'Daily program' is related to the whole week. A day dedicated program overides the 'Daily program'.

Now enter the time stamp for Period 1. Select at first minutes and then hours on the specific pull down menu:

A.	Data	entry									
				Off durati	on per step	[min]	30				
	Progr	am No> 👖	-	Work	duration [h	ours) C).0				
_			_								
Commen	ts										
Day of the week	Active	Period 1	ON [min]	Period 2	ON [min]	Period 3	ON [min]	Period 4	ON [min]	Period 5	ON
Sunday	No	00:00 🔽	0	00:00 💌	0	00:00 💌	0	00:00 🔽	0	00:00 🔽	<u></u>
Monday	No	00:00 🔽	0	00:00 🔽	0	00:00 🔽	0	00:00 🔽	0	00:00 🔽	
Tuesday	No	00:00 💌	0	00:00 💌	0	00:00 🔽	0	00:00	0	00:00	
Wednesday	No	00:00	0	00:00	0	00:00	0	00:00	0	00:00	
Thursday	No	00:00	0	00:00	0	00:00	0	00:00	0	00:00	
Saturdau	No	00.00	0		0	00.00	0	00.00	0	00.00	
Dailu	No		0		0		0		0		
c any			0 12		Ĭ		ľ ľ				
			2 14	10							
			4 16	20							
			5 17 6 18	25 30							
			7 19	35 40							
			9 21 10 22	45							-
			11 23	55							
			8:001	nn							
\sim	Progr	am No> 🔳	-	Off duration Work	on per step duration [h	(min)	30				
Commen	Progr.	am No> 👖	•	Off durati Work	on per step duration [h	(min) 🥂 ours) 🚺 O	30				
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Commen Day of the week Sunday Monday Tuesday Wednesday Thursday Friday Saturday Daily the ON dura Time schedules Commen Day of the week Sunday	Progr Active No No No No No No No No No No	am No. → 1 Period 1 00:00 ♥ 00:00 ♥ 00:00 ♥ 00:00 ♥ 00:00 ♥ 00:00 ♥ 00:00 ♥ 00:00 ♥ 00:00 ♥ 00:00 ♥ am No. → 1 Period 1 00:00 ♥	ON [min] O	Off durati Work 00:00 ¥ 00:00 ¥ 00:00 ¥ 00:00 ¥ 00:00 ¥ 00:00 ¥ 00:00 ¥ 00:00 ¥	on per step duration (h 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(min)	30 I.Q I.Q I.Q I.Q I.Q I.Q I.Q I.Q	Period 4 00:00 ¥ 00:00 ¥ 00:00 ¥ 00:00 ¥ 00:00 ¥ 00:00 ¥	DN [min] 00 00 00 00 00 00 00 00 00 00 00 00 00	Period 5 00:00 ¥ 00:00 ¥ 00:00 ¥ 00:00 ¥ 00:00 ¥ 00:00 ¥	
Commen Day of the week Sunday Monday Tuesday Wednesday Thursday Friday Saturday Daily Commen Day of the week Sunday Monday	Progr Active No No No No No No No No No No	am No. → 1 Period 1 00:00 ♥ 00:00 ♥ 00:00 ♥ 00:00 ♥ 00:00 ♥ 00:00 ♥ 00:00 ♥ 00:00 ♥ 00:00 ♥ 00:00 ♥ am No. → 1 Period 1 00:00 ♥ 00:00 ♥	ON [min] O	Off durati Work Period 2 00:00 ¥ 00:00 ¥	on per step duration (h 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	[min]	30 .0 ION [min] OON 0 0 0 0 0 0 0 0 0 0 0 0 0	Period 4 00:00 00:00	DN [min] 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Period 5 00:00 ¥ 00:00 ¥ 00:00 ¥ 00:00 ¥ 00:00 ¥ 00:00 ¥	

Wednesday

Thursday

Saturday

Friday

Daily

No

No

No

No

No

00:00 💌

00:00 💌

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The entry form calculates the staring time of Period 2 automatically to 9:45 by adding the ON duration (75 min) and the fixed OFF duration (30 min) to the previous time stamp:

Time schedules												
and a loss	Data	entry		Off duratic	n ner sten	[min]	30					
Uff duration per step [min] 30 Program No. → 1 Work duration [hours] 1.2												
Comment	8											
Day of the week	Active	Period 1	ON [min]	Period 2	ON [min]	Period 3	ON [min]	Period 4	ON [min]	Period 5	ON	
Sunday	No	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌	*	
Monday	No	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌		
Tuesday	No	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌		
Wednesday	No	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌		
Thursday	No	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌		
Friday	No	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌		
Saturday	No	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌	0	00:00 💌		
Daily	No	08:00 🔽	75	09:45 🔽	0	00:00 🔽	0	00:00 🔽	0	00:00 🔽		
1												

Proceed in the same way to add more working sequences (up to eight) in a day. The 'Working duration' field accumulates the total working time in hours.

5.3.8 I/O Functions

Click on the 'I/O Functions' button to open the respective form:

<u>.a</u>
n

You can setup up to 4 function blocks for ON/OFF or PID control. Select an analog input and a digital output, and click on the on the 'Insert record' button to create a function block:

📕 I/O Functi	ons								_ [JN
On/Off & I PID	PID control functio	n								
→ I	Analog inp		Digital outp	ut	Gain = 0	> ON/OF	F Control			
				3 ▼ 1 2	Liain > U	-> PID Co				
IU Func	Ion Al Mod. Num.	AH/U Num	DU Mod. Num.	3 n 4	Set point	tain (%)	I-I ime [sec]	D-Lime [sec]	Lycle time	
I		1		1					Þ	

🖬 I/O Functions			
On/Off & PID control function			
PID			
→ ■ Analog input	Digital output	Gain = 0> ON/OFF Control	
	- 0 - 3 -	Gain > 0> PID Control	
Ţ	Ţ		
ID Function Al Mod. Num. Al I/O N	um DOMod.Num. DOI/ONum	Set point Gain [%] I-Time [sec] D-Time [s	sec] Cycle time 📑 🕇
2 ON/OFF 0	2 0 3	3 0.0 0 0	
			•

The block function depends on the 'Gain' parameter value. 'Gain' zero value selects the ON/OFF Control function, while 'Gain' value > 0 selects the PID function.

The required parameters for a ON/OFF control function are:

- Al and DO channel selection.
- 'Set point' value between Scale low and Scale High of the respective analog input.
- 'Hysteresis' value in [%] of the analog input scale (0-20%).

The required parameters for a PID control function are:

- Al and DO channel selection.
- 'Set point' value between Scale low and Scale High of the respective analog input.
- 'Gain' value (P) between 1 and 100%.
- 'Integral time' (I) value between 1-1000 sec. A zero value disables the integral part.
- 'Derivative time' (D) value between 1-200 sec. A zero value disables the drivative part.
- 'Cycle time' value between 1 and 15 minutes, representing the pulse width modulation period of the digital output.

🚊 I/O Fu	inctions									_ [
On/Of	f & PID c	ontrol functior	n								
Р	ID										
- -		+ Analog inpu	ıt	Digital outp	ut	Gain = 0	> ON/OFI	F Control			
		0 🔽	1 🔽	0 💌	1 💌	Gain > 0	> PID Cor	ntrol			
ID F	function	Al Mod. Num.	ALI/O Num	DO Mod. Num.	DO I/O Num	Set point	Gain [%]	I-Time [sec]	D-Time [sec]	Cycle time	
10	DN/OFF	0	2	0	3	45.0	0	0	0		
2 F	PID	0	1	0	1	23.0	12	25	6		
								8	0		
1										Þ	

5.4 Uploading a configuration

Prior to uploading a configuration, connect the target device to a PC serial port and select the port in the Application parameter form:



The Application Parameters form opens:

Main parameters Ch	sracter Translation
WE Manager North Statement	Version 2.2
John -	Port Instant Port ■
	XMODEM Null 26
Background pro	ocessing 🔾 On 🖲 Off
Status Message pe Reject alarm event	riod margin [%]1 Actual Alarm period [h]24 s with time sequence [min] <2
APN	internet\
Incoming SMS files directory	\\Intelserver\users\ChrisK\BSC50_INC
Incoming SMS mirror directory	C:\COMMON\BSC50_INC_SMS
Outgoing SMS files path	\\Intelserver\users\ChrisK\BSC50_OUT

Type in the number of the serial port and click on the '**Communication test**' button. The following popup appears on a successful communication with the target device:



If the communication with the device fails:



Open the Station List and select the respective Station for the Configuration uploading:

🛄 Sta	ations: Defau	lt view		
N	1 24		e	
Recon	ts: 4 in file, 4 in	list Vplo:	ad configuration	
ID	Туре	Station Name	Tel. Number	Comments
79	SCOM-100	A-155		<u> </u>
82	BSC-50-D	B-103		
83	BSC-50-E	B-104		
84	SCOM-100	A-160		

Click on the 'Upload Configuration' button:

Confirm			
	Send the selected configuration to A-160?		
		Cancel	OK

Click on the '**OK**' button to proceed. An Alert window appears stating that any previous configuration on the device will be deleted:

Confirm	
	The SCOM-100 parameter will be set to the factory defaults. The current configuration will be deleted!
	Cancel [OK]

Click on the '**OK**' button to proceed. The uploading process begins:



Wait until the configuration uploading is completed and click on the ' \mathbf{OK} ' button to close the form.

5.5 Exporting a device configuration

🔜 Sta	ations: Defau	lt view	
	1 21	D 🖻 🖻 🚅	
Recon	d <u>e 3 in file, 3 in</u>	list 📉 🔀	Export to File
ID	Туре	Station Name	Tel. Number
1	SCOM-100	SCOM-100	
2	BSC-50-E	BSC-50	
3	BSC-50-D	BSC-50	
			•

Click on the 'Export SMS Text' button to export the configuration ASCII commands in a form of a text file:



Click on the 'OK' button.

Save the docum	ent	<u>? ×</u>
Save in:	🗁 Shared Documents 💽 🗢 🖆 🏢	
My Recent Documents Desktop Desktop My Docs My Computer	C Shared Music C Shared Pictures Shared Video	
My Network Places	File name: Config_A145.txt Save as type: Custom document	Save Cancel

Type in a file name for the text document and click on the '**Save**' button.

Ехрон	exporting configuration Nr: 47										
E	xporting) GPR	6 para	meters	s					_	
0	і 10	۱ 20	ı 30	ı 40	ו 50	і 60	ı 70	। 80	। 90	100	
A	larm rec	pients	settin	igs coi	mplete	d!				_	
Ō	і 10	1 20	і 30	۱ 40	і 50	н 60	і 70	и 80	и 90	100	
									(OK	

Click on the '**OK**' button to close the form. A exported configuration looks as follows:

5.6 Opening the Device Control Panel

🔜 Stations: Default view						
Recon	de: 3 in file, 3 in list			Control panel		
ID	Station Name		Tel. Number	Comments		
47	A-145		6972235766			
48	A-150		69727889001			
49	B-168		6946577888			
				•		

The Control Panel for an attached target device can be opened by clicking the '**Control panel**' button. See section 7.

5.7 Managing the Station List

You can change user data or remove a Station from the List using the respective buttons:

🚊 Sta	🚊 Stations: Default view					
	◣◙ዖ₦ ◘╔ॄ̂ॏॎख़ॗॗढ़ॗ					
Recon	<u>te: 3 in file, 3 in list</u> 🗾 Edit	Station				
ID	Station Name	Tel. Number	Co			
47	A-145	6972235766				
48	A-150	69727889001				
49	B-168	6946577888				

🚊 Sta	🔜 Stations: Default view					
	N. 2. P 🙌 🗅 🖻 💼 🚅 💂					
Recon	de: 3 in file, 3 in list	Delete Station				
ID	Station Name	Tel. Number	C			
47	A-145	6972235766				
48	A-150	69727889001				
49	B-168	6946577888				
			ľ			

On deleting a Station from the list, all Station Alarm & Status events in the respective tables will also be deleted.

6. System operation

6.1 The 'GSMServer.exe' utility

Copy the GSMServ folder on your harddisk.



Connect a GSM modem to a PC serial port and execute the GSMserver.exe application.

GSM Server - Stopped

Position the cursor over the GSM Server icon and click the right mouse button:



Click on the 'Settings' selection:

GSM Serve	er Settings	×			
Port:	1 Baudrate: 115200	1			
Inc SMS:	C:\Documents and Settings\User\Desktop\test				
Out SMS:	\\Intelserver\Users\ChrisK\BSC50_OUT				
	ОК Акиро				

Select the GSM Modem serial port by typing the port number in the '**Port**' entry field. Select the appropriate Baud rate for the serial communication with the GSM modem.

Select a folder for the incoming SMS by clicking on the respective directory selection button:

Browse For Folder	? ×
Select incoming SMS folder	
Desktop	-
Image: My Docs Image: My Computer Image: My Computer	
My Network Places Create-A-Label 3 v2.01	
ilogPlus_Prosp	
Components	v
Make New Folder OK Cano	el

Click on the Start menu item to start with the program execution:



6.2 Selecting the Application parameters



Open the Application Parameters Form:

Main parameters Ch	aracter Translation					
	Version 2.2 Port 1 BaudRate 115200 Image: C2 XMODEM Null 28					
Background pro	ocessing On Off					
Reject alarm even	shop margin (%) Actual Alarm period (n) swith time sequence (min) <2					
APN	internet\					
Incoming SMS files directory	\\Intelserver\users\ChrisK\BSC50_INC					
Incoming SMS mirror directory	Incoming SMS C:\COMMON\BSC50_INC_SMS					
Outgoing SMS (\Intelserver\users\ChrisK\BSC50_OUT files path						

- 1. **Status Message period margin%**: Specify a toleration intervall for the expected Station Status Messages. Type in a value between 1 and 100% of the Station Status message period in the respective field (e.g. 1%).
- 2. Actual Alarms period [h]: Specify a time depth period in hours for monitoring the actual alarm events (e.g. 24 hours).
- 3. **Reject alarm events with time sequence [min] <**: Type in '0' for accepting all alarm events. Type in a value in minutes (e.g. 15 min). A concecutive alarm of a specific input occuring during this period will be rejected.
- 4. **Incoming SMS files directory**: Select the incoming SMS folder of the GSM server application.
- 5. **Incoming SMS mirror directory**: Select a mirroring folder, where incoming SMS are copied after importing and archiving in the WA Manager application.
- 6. Outgoing SMS files path: Select a directory for outgoing SMS.
- 7. Click on the 'Save' button to accept the Application settings.
- 8. Background processing: if 'On' is selected, background processing (SMS importing) begins automatically upon program launching.

6.3 Real Time Monitoring



Select the menu item '**Start**' to launch the background processing e.g. automatic importing Alarm & Status SMS received by the GSM Server utility.

6.3.1 Alarm events monitoring

	Station	Date	Time	Input	#	Contents
47	A-145	30/09/09	19:52	DI	1	DI 1 Low level Alarm
47	A-145	30/09/09	19:49	DI	1	DI 1 Low level Alarm
47	A-145	30/09/09	16:40	DI	1	DI 1 Low level Alarm
47	A-145	30/09/09	14:17	DI	1	DI 1 Low level Alarm
		•••••••••••••••••••••••••••••••••••••••				

All stations alarm events are shown in an Actual Alarms List in real time and for a time depth, specified in the respective Applications settings parameter.

6.3.2 Status events monitoring

📕 Stat	us Message Monil	tor			
	Status messages	- Previou	ls – _	N∉	ext —
ID	Station	Date	Time	Date	Time
47	A-145	30/09/09	14:09	01/10/09	14:23 🔶
48	A-150	30/09/09	14:34	07/10/09	16:15
49	B-168	30/09/09	14:34	07/10/09	16:15
					-

A Status Messages monitor form contains one record for each declared station for attending the Station availability. Each record contains the time stamp of the last Status event received from the Station and and a time estimation for the arrival of the next event.

6.4 The Status Message File



All Stations Status events are archived in the Status Events File:

🔜 Status Events: Default view					
N. 2. D		î 🖪			
Records: 7 in 1	file, 7 in list				
Station ID	Station Name	Date	Time		
76	A-133	02/03/2010	13:43 📥		
76	A-133	26/02/2010	19:12		
76	A-133	26/02/2010	17:33		
76	A-133	26/02/2010	17:21		
76	A-133	26/02/2010	17:16		
76	A-133	26/02/2010	16:49		
76	A-133	23/02/2010	12:02		
	•				
	o	•			

Old Status event records can be selected and removed from the file:

🧮 Status Ev	🖬 Status Events: Default view					
		1				
Records: 7 in .	file, 7 in list	Delete sele	ction			
Station ID	Station Name	Date	Time			
76	A-133	02/03/2010	13:43 📥			
76	A-133	26/02/2010	19:12			
76	A-133	26/02/2010	17:33			
76	A-133	26/02/2010	17:21			
76	A-133	26/02/2010	17:16			
76	A-133	26/02/2010	16:49			
76	A-133	23/02/2010	12:02			
	•	¢				

Click on the 'Delete selection' button to remove the selected records.

🔜 Status Ev	ents: Default view			- D ×
		ð 🛃		
<u>Hecords 6 m</u>	<i>file, 6 in list</i> Station Name	Date	on List	
76	A-133	02/03/2010	13:43	
76	A-133	26/02/2010	19:12	
76	A-133	26/02/2010	17:33	
76	A-133	26/02/2010	17:21	
80	B-145	02/03/2010	16:45	
80	B-145	02/03/2010	15:03	
	•			
				-
I				Þ

A quick selection capability is available for selecting all Status Messages of a specific Station. Click on the "Station List' button. A Station List Palette opens:

🔜 Status Ev	ents: Default view		_ [Ľ	🛄 Stations	
Records: 6 in J		Û 🖪			B-145 A-133	<u>~</u>
Station ID	Station Name	Date	Time			
76	A-133	02/03/2010	13:43			
76	A-133	26/02/2010	19:12			
76	A-133	26/02/2010	17:33			
76	A-133	26/02/2010	17:21			
80	B-145	02/03/2010	16:45			
80	B-145	02/03/2010	15:03			
						-
	•					
	•					

Click on a Station in the Stations List to select the Status messages of the specific Station in the Table form.

🔛 Status Ev	vents: Default view			- 🗆 🗵
		Î 🖪		
Heconds: 6 in . Station ID	hile, 4 in list Station Name	Date	Time	
76	A-133	02/03/2010	13:43	*
76	A-133	26/02/2010	19:12	
76	A-133	26/02/2010	17:33	
76	A-133	26/02/2010	17:21	
	°			
	ļ			

In order to select all records in the Table form, close the Station List Palette and use the Record selection button on the Table form:

ents: Default view	î 🖪	<u>-0×</u>
Station Name	Date	Time
A-133	02/03/2010	13:43 📥
A-133	26/02/2010	19:12
A-133	26/02/2010	17:33
A-133	26/02/2010	17:21
	A-133 A-133 A-133 A-133	Default view Image: Constraint of the second sec

	Status Ev	vents: D	efault view			<u>- </u>
	All records		₽ ₩	Î 🖪		
-	Selected		¥ IName	Date	Time	
-	Not select Not in list	ea		02/03/2010	13:43	<u> </u>
<u> </u>	76	A-133		26/02/2010	19:12	
	76	A-133		26/02/2010	17:33	
	76	A-133		26/02/2010	17:21	
		••••••				
		1		•		

6.5 The Alarm Message File

👌 WA Manager							
File	Edit	Events	Utilities	Help			
		Status Events					
		Alarm Events					
		_		_			

All Stations Alarm events are archived in the Alarm Events File:

📕 Alarm Ev	ents: Default view					
		Î 🖪				
Records: 4 in .	file, 4 in list					
Station ID	Station Name	Date	Time	Туре	1/0	Contents
76	A-133	02/03/2010	13:38	DI	1	DI 1 Low Level Alarm
76	A-133	26/02/2010	17:11	DI	1	DI 1 Low Level Alarm
76	A-133	26/02/2010	16:54	DI	1	DI 1 Low Level Alarm
76	A-133	26/02/2010	16:52	DI	1	DI 1 Low Level Alarm
		o				

Old Alarm event records can be selected and removed from the file:

🚊 Alarm Ev	ents: Default view					
		1				
Records: 4 in .	file, 4 in list	Dele	ete selectio	n		
Station ID	Station Name	Date	Time	Туре	1/0	Contents
76	A-133	02/03/2010	13:38	DI	1	DI 1 Low Level Alarm 📃
76	A-133	26/02/2010	17:11	DI	1	DI 1 Low Level Alarm
76	A-133	26/02/2010	16:54	DI	1	DI 1 Low Level Alarm
76	A-133	26/02/2010	16:52	DI	1	DI 1 Low Level Alarm
		•				

Click on the 'Delete selection' button to remove the selected records from the file.

You can quick select records of the Alarm Events file in the same manner as described in the Status Event file, using the Station List Palette (6.4).

7. The Device Control panel7.1 Opening the device Control panel

🛄 Sta	🖼 Stations: Default view						
	N 🗷 🔎 🕶 🗀 🗗 🖬 🖉 🖳						
Recon	de: 3 in file, 3 in list			Control panel			
ID	Station Name		Tel. Number	Comments			
47	A-145		6972235766				
48	A-150		69727889001				
49	B-168		6946577888				
				••••••••••••••••••••••••••••••••••••••			

The control panel utility facilitates the target device testing. You can pass commands simply by clicking on functional buttons to the target device and observe the device response. In order to open the Control panel, you must first connect the target device to a PC serial port (See also 5.3). Select a station in the station and open the control panel.

7.2 The BSC-50 Control panel

BSC-50 Control panel		
Command window	🔾 Local	C Remote C Off
BSC-50 response	SIGNAL	IMEI CLEAR
Configuration Actual		
Device Name Al settings	DI settings Active I/O	Get status
SMS users SM Period	SM Idle Period Send delay	Send Retries
Factory settings	Reset Set RTC	Read RTC

The Control panel comprises two operation modes:

- **Local**: The target device must be connected to the serial port of the PC in order to select this operation mode.
- Remote: This mode is selectable only for devices which are steady connected to the GSM network, as BSC-50-E operating with power network supply. The GSM Server must be running in order to use the remote mode.

Available function buttons include:

- Viewing digital input configuration.
- Viewing the device user list.

- Viewing the device status.
- Setting and viewing the device real time clock.
- Resetting the device.
- Viewing important device parameters, as Status message period, Retries, etc.
- Setting Factory default parameters.
- Observing GSM Signal quality.

Example: Reading a digital input configuration

Connect a BSC-50-D device to the PC and open the Control panel:

3SC-50 Cont	rol panel	_
Command win	ndow 💿 Local 🔾 Remote	
	Establishing connection	
BSC-50 respr	Preparing connection, please wait	
DOC-SUTESPC		
	0 10 20 30 40 50 60 70 80 90 100	
L		
O Configura	ation 🔾 Actual 🚽 🔰	
Davies New	Al settings DI settings Active I/D Get st	tatus
 Device Nam 		

Click on the 'Local' button to establish a connection to the device:

3SC-50 Control p	anel			
Command window	Read digital input	settings DI ,1	🖲 Local	ORemote Off
				
BSC-50 response		SI	GNAL BRIEF	IMEI CLEAR
				<u> </u>
				T
O Configuration	Actual	<mark>1</mark> 1		
Device Name	Al settings	DI setting 2	ctive I/O	Get status
SMS users	SM Period	4 SM Idle Period	Send delau	Send Betries
		Sinnaich ciloa		

Select the input number and click on DI settings button to view the DI configuration.

BSC-50 Control pa	anel				_ 🗆 ×
Command window	Read digital input	settings DI ,1	🖲 Local	O Remot	e 🔾 Off
3110,1					▲ ▼
BSC-50 response		SIGN.	AL BRIEF	IMEI	CLEAR
ALARM:POSITIVE ALARM MESSAGE DELAY:3 SECOND ALARM RECIPIEN	TRANSITION S (HUMAN/DEVICI S TS:2,1	E):1,0			
O Configuration (Actual	1			
Device Name	Al settings	DI settings	Active I/O	Get	status
SMS users	SM Period	SM Idle Period	Send delay	Send	Retries
Factory	settings	Reset	Set RTC	Read	IRTC

7.3 The SCOM-100 Control panel

5COM-100 Control panel	
Command window	O Local O Remote Off
SCOM-100 response	SIGNAL IMEI CLEAR
	*
O Configuration O Actual	
HELLO Read Al	Read DI Set output Reset output
SMS users Active I/O	Normal O Pulse 5 O Delay 00:02
Get status BUN (Control)	
	

The Control panel comprises two operation modes:

- **Local**: The target device must be connected to the serial port of the PC in order to select this operation mode.
- Remote: This mode is selectable only for devices which are steady connected to the GSM network. . The GSM Server must be running in order to use the remote mode.

Available function buttons include:

- Analog and digital input reading.
- Controlling digital outputs.
- Viewing input configuration.
- Viewing user list.
- Viewing the device status.
- Setting the device status.
- Setting and viewing the device real time clock.
- Commanding the device to perform reset.
- Setting Factory default parameters.

Attach an SCOM-100 device to the PC serial port and wait until booting is completed. Click on the local radio button of the SCOM-100 Control Panel:

SCOM-100 Co	ontro	l pane	2l							1		
Command win	dow								0	Local	⊖ r	emote 🖲 Off
	Estal	olishin	ig cor	inecti	ion							
SCOM-100 re	Prep	paring	conne	ction,	please	e wait						CLEAR
		T	Т	Т	-	I	I	1	1	1		
	0	10	20	30	40	50	60	70	80	90	100	

7.3.1 Reading the device inputs



Use the pull down menus to select the I/O module and I/O number. Click on the '**Read DI**' button to view the digital input state:

SCOM-100 Control panel				
Command window Read digital input DI 0,1 3100,0,1		Local	◯ Remo	te 🔾 Off
SCOM-100 response	SIGNAL	BRIEF	IMEI	CLEAR
DI 0.1 (0,1) STATE:OFF				▲ ▼
Configuration Actual HELLO Firmware Vers. SMS users Active I/O Normal	I Se O Pulse	et output	Reset	output

The '3100' ASCII command is sent to the SCOM device. The device response appears in the 'SCOM-100 response' window.

You can read in the same way the analog inputs by selecting the respective module and I/O number and clicking on the 'Read AI' button.

7.3.2 Reading the input configuration

atsms="3210,0,1"	Read analog input settings AI U, I			<u> </u>
SCOM-100 response		BRIEF	IMEI	CLEAR
Room Temp (0,1) SENSOR SCALE:2031 SCALE:-25105 ALARM LIMITS:15.0,3 UNIT:oC ALARM MESSAGES (DELAY:0 SECONDS ALARM RECIPIENTS: PID CONTROL:NO	3096 2.0 LOW/HIGH}:0,0 ALL			•
ELLO	Actual 0 1 Al settings DI settings D	settings	Reset	output

Select an analog input and click on the 'Configuration' radio button to view the input configuration. The 'Read' buttons lables change to 'Settings'. Click on the 'AI settings' button. The analog input configuration report appears in the 'SCOM-100 response' window.

Command mindom	Pulse output	DO 0,3				
atsms="1010,0,3,5"						▲ ▼
SCOM-100 response				BRIEF	IMEI	CLEAR
COMMAND PROCESS	ED OK					_
						_
		0				•
O Configuration	ctual		• 3			T
C Configuration A	ctual Read Al	0 Read DI	J [3	et output	Reset	output
Configuration A HELLO Firmware Vers.	Ctual Read Al	0 Read DI		et output	Reset	output

7.3.3 Controlling the digital outputs

Select the pulse radio button and enter a pulse duration in seconds in the respective field. Click on the 'Set output' button to set the output in pulse mode.

7.3.4 Setting the real time clock

Command window	Set date & tir	ne				
atsms="1600,20,4,2007,	,14,48,21''					<u> </u>
SCOM-100 response				BRIEF	IMEI	CLEAR
COMMAND PROCESSE	ED OK					<u> </u>
						•
O Configuration Addition	ctual	0	- 3			•
Configuration C Ar	ctual Read Al	0 Read DI		et output	Reset	output
Configuration Are HELLO Firmware Vers. SMS users	Read AI	0 Read DI	 3 Se Pulse 	et output	Reset	output
Configuration Art HELLO Firmware Vers. SMS users	Read AI	0 Read DI O Normal STOP		et output	Reset	output 00:02

Click on the 'Set RTC' button to set the device real time clock to the PC current date and time.

8. Updating a Remote Station Configuration

BSC-50 devices are commonly battery operated. A remote device is not available on the GSM network during normal operation. The WA Manager supports remote BSC-50 station configuration via SMS. Update actions are added in form of records in a respective update table. Every record of the update table represents a configuration SMS to be sent to a remote station. The SMS is sent immediately after receiving a Status SMS from the respective station.

The value of the "Status Idle time Period' station parameter must be se between 30 and 180 sec in order to permit remote configuration.

Remote configuration is limited to the following actions:

- 1. Replace a user in the General User List.
- 2. Remove a User from the General User List.
- 3. Change General Station Parameters.
- 4. Set up your own SMS with the appropriate configuration commands.

8.1 Replacing a user in the General User List

Open a User record of the General User List:

📕 Edit U	lser				
	User List				
	Update Station			966] 🗇 🗙 🚯
	ID		1		
	Name	George P			
	Phone	69747886	56		
	User flags				
	Config Use	rs	🔘 Yes	No	
	Config Dev	rice	🖲 Yes	O No	
	Alarm recip	ient	🖲 Yes	O No	
	M2M		🔘 Yes	● No	

Replace the field values with the new user data:

🧮 Edit U	lser				
	User List				1 of 1
	🗶 Upda	ate Station		1000	×
	ID		1		
	Name	Theodor	еK		
	Phone	6946667	7888		
	User flags	:			
	Config Us	sers	🖲 Yes	O No	
	Config De	Config Device		⊖ No	
	Alarm rec	ipient	🖲 Yes	⊖ No	
	M2M		🔘 Yes	No	

Click on the 'Update Station' Check box and save the record.

The WA Manager creates a record of the new user configuration in the Station Configuration Updates table for each occurrence of the replaced user in the Stations User Lists. The Station Configuration Updates table can be opened through the respective menu item:

👶 WA Manager										
File	Edit	Events	Utilities	Help						
			Station Configuration Updates							
			Bacl	kground Processing						
			- Star	t						
			- Stop	D						

📓 Station Configuration Updates: Default view										
SMS ID	SMS Sent	Station ID	Station Name	Date	Time	SMS Contents	Reason	Object ID		
1	No	1	A-134	28/02/10	21:03:06	0500,1,Theodore K,6946667888,1,1,1,0	Change User in the General User List	2		
2	No	2	A-122	28/02/10	21:03:06	0500,1,Theodore K,6946667888,1,1,1,0	Change User in the General User List	2		
3	No	3	B-101	28/02/10	21:03:06	0500,1,Theodore K,6946667888,1,1,1,0	Change User in the General User List	2		
		•	•							
		•	•		••••••					
		•	•		•					

8.2 Removing a user from the General User List

Open the General User List:

💩 WA Ma	nager							
File Edit	Events Utilities Help							
🚊 Gener	al User List: Default vi	ew					_ 0	×
Records: 4		Df						
User ID	Name	Phone	Config Users	Config Device	Alarm Recipient	M2M	Comments	
2	Theodore K	6946667888	Yes	Yes	Yes	No		-
4	George P	6972765899	Yes	Yes	Yes	No		
5	SCOM-100-3	6946563699	No	No	Yes	Yes		
6	WA Manager	6972222455	Yes	Yes	Yes	No		-
	• •			•				_
		1			1	1	1	

Click on the 'Delete record' button:



Click on the 'OK' button.



The WA Manager creates one record for every occurrence of the removed user in the Stations User Lists in the Station Configuration Updates table.

8.3 Changing the General Station Parameters

Open a Station Configuration form:

Edit Station		_ 🗆 🗵
Configurations 3 of 3	Update Station	
General Users Digital IN		
ID 3 Phone number 6745344477 Type BSC-50-D		
Station name B-101		
PIN number Verbose response 🕱 Merge alarms 🕱		
Available SMS alarm limit0 SMS counter preset0		
Retries 3 Retry delay [sec] 10		
Status Message period [Days] 7 Status Idle Time period [sec] 120		
Comments	×	

Following parameters can be updated:

- 1. Retries on a SMS transmission failure.
- 2. Delay between retries.
- 3. Period for the Status messaging.
- 4. Status Idle Time period.

Change a parameter value, click on the 'Update Station' Check box and save the record. A respective record is created in the Stations Configuration Updates table.

8.4 Editing the Station Configuration Update records

Open a Station Configuration Updates form:

📕 Station C	📰 Station Configuration Updates: Default view												
Records: 2 in file, 2 in fist													
SMS Sent	Station ID	Station Name	Date	Time	SMS Contents	Reason							
No	80	B-145	02/03/10	17:13:05	0640,3;0641,10;0650,7;0651,45	Change Station Parameters 📃							
No	76	A-133	02/03/10	17:14:03	0500,2,WA Manager,6957642406,1,1	Change User in the General User List							

Following actions are available:

- Add a new update record for a station.
- Edit an existing record.
- Delete a record.

8.4.1 Add a new Update Record

📕 Station C	Station Configuration Updates: Default view											
Records 2 in .	file, 2 in list		New record									
SMS Sent	Station ID	Station Name	Date	Time	SMS Contents	Reason						
No	80	B-145	02/03/10	17:13:05	0640,3;0641,10;0650,7;0651,45	Change Station Parameters						
No	76	A-133	02/03/10	17:14:03	0500,2,WA Manager,6957642406,1,1	Change User in the General User List						
							-					

Click on the 'New record' button. The respective Entry form opens:

📕 Edit Config	uration Update	
	1 of 1	
Station	80 <mark>B-145</mark>	
Contents		
		Y

Click on the Station selection pull down menu to select a station.

📕 Edit Configu	<u>-0×</u>	
	1 of 1	× 5
Station	80 B-1 4	5
Contents	₩-13	5 3

Type in a set of valid device configuration commands. The command text must not exceed the maximum number of 160 characters.

🧮 Edit Config	guration Update	
	3 of 3	×
Station	80 B-145	•
Contents	0640,3;0641,5;0650,7;0651,42;0501,3	×

Click on the 'Accept' button to save the new record.

Station Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view Image: Configuration Updates: Default view										
SMS Sent	Station ID	Station Name	Date	Time	SMS Contents	Reason	0			
No	80	B-145	02/03/10	17:13:05	0640,3;0641,10;0650,7;0651,45	Change Station Parameters	<u> </u>			
No	76	A-133	02/03/10	17:14:03	0500,2,WA Manager,6957642406,1,1,1,0	Change User in the General User List				
No	80	B-145	02/03/10	18:01:26	0640,3;0641,5;0650,7;0651,42;0501,3	Custom Configuration				
			1		• · · · · · · · · · · · · · · · · · · ·	1	····			

8.4.2 Edit an existing record

🚊 Statio	🔝 Station Configuration Updates: Default view													
Records 3	Records: 3 in file, 3 in fixt													
SMS Se	nt Station I	D Station Name	Date	Time	SMS Contents	Reason	0							
1	lo 8	0 B-145	02/03/10	17:13:05	0640,3;0641,10;0650,7;0651,45	Change Station Parameters	<u> </u>							
1	lo 7	'6 A-133	02/03/10	17:14:03	0500,2,WA Manager,6957642406,1,1,1,0	Change User in the General User List								
١	lo 8	80 B-145	02/03/10	18:01:26	0640,3;0641,5;0650,7;0651,42;0501,3	Custom Configuration								
			1			1								

Select an existing record and click on the 'Edit record' button to open the it:

🔜 Edit Config	juration Update	
	2 of 3	×
Station	80 B-145	•
Contents	0500,2,WA Manager,6957642406,1,1,1,0; <mark>0501,4</mark>	

Edit the SMS contents field and click on the 'Accept' button to save the record.

🔝 Station Configuration Updates: Default view											
Records: 3 in .	file, 3 in list										
SMS Sent	Station ID	Station Name	Date	Time	SMS Contents	Reason	Object ID				
No	80	B-145	02/03/10	17:13:05	0640,3;0641,10;0650,7;0651,45	Change Station Parameters	80 📥				
No	80	B-145	02/03/10	17:14:03	0500,2,WA Manager,6957642406,1,1,1,0;0501,4	Custom Configuration	30				
No	80	B-145	02/03/10	18:01:26	0640,3;0641,5;0650,7;0651,42;0501,3	Custom Configuration	-1				

8.4.3 Delete a record

🖬 Station Configuration Updates: Default view											
Records: 3 in life: 3 in life:											
SMS Sent	Station ID	Station Name	Date	Time	SMS Contents	Reason	Object ID				
No	80	B-145	02/03/10	17:13:05	0640,3;0641,10;0650,7;0651,45	Change Station Parameters	80 📥				
No	80	B-145	02/03/10	17:14:03	0500,2,WA Manager,6957642406,1,1,1,0;0501,4	Custom Configuration	30				
No	80	B-145	02/03/10	18:01:26	0640,3;0641,5;0650,7;0651,42;0501,3	Custom Configuration	-1				
Î			•								

Select a record and click on the 'Delete record' button to remove it from the table:

Estation Configuration Updates: Default view										
Records 3 in ,	file, 3 in list		D	elete record]					
SMS Sent	Station ID	Station Name	Date	lime	SMS Contents	Reason	Object ID			
No	80	B-145	02/03/10	17:13:05	0640,3;0641,10;0650,7;0651,45	Change Station Parameters	80 📥			
No	80	B-145	02/03/10	17:14:03	0500,2,WA Manager,6957642406,1,1,1,0;0501,4	Custom Configuration	30			
No	80	B-145	02/03/10	18:01:26	0640,3;0641,5;0650,7;0651,42;0501,3	Custom Configuration	-1			
			• •			•				

Station Configuration Updates: Default view							
Records: 2 in file, 2 in list							
SMS Sent	Station ID	Station Name	Date	Time	SMS Contents	Reason	Object ID
No	80	B-145	02/03/10	17:13:05	0640,3;0641,10;0650,7;0651,45	Change Station Parameters	80 📥
No	80	B-145	02/03/10	18:01:26	0640,3;0641,5;0650,7;0651,42;0501,3	Custom Configuration	-1
			•			•	