

Description: Guide to configuring the AlarmWorX32 Multimedia Server to send SMS messages with a cellular phone.

OS Requirement: The operating system required is Windows XP/2000/2003/NT/95/98/Me.

General Requirement: AlarmWorX32 Multimedia, a cellular phone, a cellular phone serial cable.

AlarmWorX32 Multimedia SMS

The ICONICS AlarmWorX32 Multimedia Pager/SMS Agent supports cellular phones with a built-in Modem. Using AlarmWorX32, it is possible to send SMS messages via a modem or a cellular phone. In this applications note we will configure the Multimedia server so that it sends SMS messages via a cellular Phone. See the applications note Using AlarmWorX MMX SMS with a Modem otherwise.

There are some advantages and disadvantages of sending SMS messages via a cellular phone:

Advantages

- Cheaper to send SMS's
- MMX can send more sms's per minute
- It is possible to acknowledge the alarms

Disadvantages

- More hardware is needed

Cell Phone / modem configuration

- 1. Attach the cellular phone serial cable to the computer and the cell phone.
- 2. Go to Start → Settings → Control Panel → Phone and Modem.
- 3. Select the **Modems** tab and click **Add**. The computer will search for new modems. This will determine on which port the modem is communicating.
- 4. Test the modem using a windows modem utility such as **Hyperterminal**.

NOTE: The actual dialogs vary between windows operating systems.

MMX Configurator

- 1. Launch the AlarmWorX32 Multimedia Configurator.
- 2. Browse to Alarm Configurations → Multimedia Agents → Pager/SMS/GSM/TAP in the tree control.
- 3. Launch the TAP configuration by pressing the **General Settings** button. The window in **Fig. 1** will appear.

4. **TAP/SMS Diagnostics** will be displayed to allow the option to view and log ISDN/GSM diagnostic messages during pager testing. Here you can also set the option to allow the alarm to be acknowledged via SMS.

Ň	Iodem Configuration	0	DK.
Pag	ger Configuration:		
Г	Enable TAP Log File		
Г	Enable TAP Dialog		
Г	Enable TAP Acknowledge		
7	Enable SMS Dialog		
~	Enable SMS Acknowledge		

Fig. 1: Multimedia Pager configuration screen

- 5. Select the **Modem Configuration** button to launch the SMS configurator.
- 6. Select Message-Master GSM/PCS and press the Config.... button.

ettings			٤
General Ports Services Messa	ges		
Here you can change the settings f	or the Spoolers.		
Activate Outbox Spooler:	Г		
Activate Inbox Spooler	E		
Interval for checking for incoming messages:	20	 seconds minutes 	
(The greater the interval, the less yo can send messages.)	ur system has t	to work and the f	aster you
OK	Cancel	Apply	Help

Fig. 2: Modem/ISDN configuration screen

7. Select the **Ports** tab and click **Add**. Select the right COM Port and Baud Rate, and then click **Next**.

Port:	COM4	2	
Baud Rate:	9600	•	
Data Bits:	8	•	
Parity:	None	•	
Stop Bits:	1	•	

Fig 3: Com port Settings



- 8. Fill in the mobile number and click **Next**. The Initialization screen will appear. Click **Next**.
- 9. Select the service the cell phone provider is using. And write down the service number. Click on **Finish** and the Multimedia server will check the connection.
- 10. Double-click on the COM Port and confirm that the Default SMSC is the same as the service number selected.

evice Properties Ini	tialization COM Port Settings	
The properties of the change the SMSC (S	device on the chosen port are shown here. You hort Message Service Center) number here.	can
Port	COM4	
Manufacturer:	Nokia	
Model:	Nokia 6230	
Network operator:	20412	
Signal quality:	*******	
Default SMSC:	+31626000230	
Own number:		
PIN:	Change <u>P</u> IN)
Query PIN:	E	

Fig 5: Device Properties

11. Click on **OK** and then choose the **General** tab. Select **Activate Outbox Spooler** and **Activate Inbox Spooler**.

Here you can change the settings for	ges or the Spoole	ers.
Activate Outbox Spooler:	2	
Activate Inbox Spooler	V	
nterval for checking for incoming	20	 seconds minutes
(The greater the interval, the less yo can send messages.)	ur system ha	as to work and the faster you

Fig 6: General Settings

12. Click on **OK** and close the window.

General Pager Configuration

1. From the Pager/SMS/GSM/TAP branch right-click and select New → Pager Contact.

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2. Enter SMS Media Name.
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- 3. Enter Cell Phone Number.
- 4. Select a template.
- 5. Select Use GSM/PCS Service and choose the service provider for your pager.
- 6. Fill in a 3 digit number as an Acknowledge Code (e.g. 123)
- 7. Press Apply.

Test the Setting

Select the SMS agent you've just created. Click on Test and the MMXPager SMS Diagnostic Dialog will appear.

Services:	Aerial Comms - GSM (USA)
Number:	0616612365
Message:	Virtual Test DeviceIITEST ??1??
Received	£
Sent	ID:17;5MSC:+31626000230;
Status:	Message to 0616612365 successfully sent: Virtual Test Device IITEST ??!??

Fig 6: MMXPager SMS Diagnostic Dialog

Notice in **Fig. 6** that an alarm number is generated (e.g. ??1??) in the alarm message. This number is needed for the acknowledgement of alarm. To acknowledge the alarm you need to send the following alarm back:

??1?? 123

The Multimedia Server will make a connection to the inbox of the phone and acknowledge the alarm.

Services:	Aerial Comms - GSM (USA) Close
Number:	0616612365
Message:	MMXRadiationLevelIIDigital ??1??
Received:	31616612365 ??1?? 123
Sent	 ID:19:SMSC:+31626000230;
	Message to 0616612365 successfully sent: MMXRadiationLevelIIDigital ??1??

Fig 7: Acknowledge alarm is received