



1985-2009

SMS-Monitor

Version 4

Reference manual



Communiquer aVec le Monde





SMS-Monitor

Ce logiciel est protégé par la loi du copyright
comme indiqué dans la boîte "A propos de"



**For assistance about
SMS-Monitor, contact CVM :**

Monday through Friday

From 9 a.m. to 13 p.m. and from 14 p.m. to 18 p.m.

☎ Standard : +33 (0)1.43.67.09.03

☎ Technical Service : +33 (0)1.43.67.63.76

✉ : cvm@cvm.fr

SUMMARY

1. SOLUTION SERVER SMS-MONITOR	8
1.1. INTRODUCTION	8
1.2. TECHNICAL AND FUNCTIONAL FEATURES	8
1.3. SECURITY	10
1.4. FORMAT OF THE NUMBERS OF GSM OF THE RECIPIENTS.....	11
1.4.1. <i>FLASH SMS</i>	11
1.4.2. <i>Particular case of Orange Caraïbe</i>	11
2. ARCHITECTURE OF SMS-MONITOR	12
2.1. SMS-MONITOR AND THE CARRYING TRADE OF ENTERPRISE.....	13
2.1.1. <i>SMTP interface</i>	13
2.1.2. <i>Lotus interface note</i>	13
2.1.3. <i>POP3 interface</i>	13
2.2. SENDING BY SMS OF ALARMS PRODUCED BY OF THE APPLICATIONS OF SUPERVISION	14
2.2.1. <i>Quick start implementation of the sending by SMS of alarms produced by of the applications of supervision</i>	15
2.3. SORTING AND ROUTING OF THE SMS OF ANSWER	16
3. IMPLANTATION TYPE OF SMS-MONITOR	17
3.1. PRESENTATION OF THE PROPOSED EQUIPMENT	17
3.2. SOFTWARES AND MODULATE COMPOSE THE PLATFORM	17
3.3. INSTALLATION.....	18
3.3.1. <i>Necessary equipments to the implementation</i>	18
3.3.2. <i>Material installation</i>	19
3.3.3. <i>Software installation</i>	19
3.4. ARBORESCENCE OF THE INDEXES OF SMS-MONITOR	22
3.5. FASHION OF STARTING.....	26
3.6. QUICKSTART	27
3.7. INSTALLATION AND CONFIGURATION BY STOPPING PLACE	28
3.7.1. <i>Emission of SMS by SMTP</i>	28
4. USE SMS-MONITOR.....	30
4.1. SETTINGS OF THE SMS MONITOR SERVER.....	30
4.1.1. <i>General Settings</i>	30
4.1.1.1. Server.....	30
4.1.1.1.1. Language	31
4.1.1.1.2. Console	31
4.1.1.1.3. Journals of the treatments.....	31
4.1.1.1.4. Key of use	31
4.1.1.1.5. International country code	32
4.1.1.1.6. Conversion of the numbers in international format.....	32
4.1.1.1.7. Delay of resurgence of the modems	32
4.1.1.1.8. Conserving of the logs	32
4.1.1.1.9. Delay of resurgence of the modems	32
4.1.1.1.10. Maximum wait of answer of the modems	33
4.1.1.1.11. Index of synchronization	33
4.1.1.1.12. CVM-Unicomm express	33
4.1.1.2. Messages	33
4.1.1.2.1. Maximum number of SMS.....	34
4.1.1.2.2. Truncating in case of surpassing	34
4.1.1.2.3. Delay of deliverance	35
4.1.1.2.4. Maximum length of the text.....	35
4.1.1.2.5. Conserving of the messages.....	35

4.1.1.2.6.	Options.....	36
4.1.1.3.	Receipt	37
4.1.1.3.1.	Display of a puts windows in surgissante.....	37
4.1.1.3.2.	Copy in an index	38
4.1.1.3.3.	Execution of an command.....	38
4.1.1.3.4.	Sending in e-mail	39
4.1.1.3.5.	Sending to a lotus recipient note.....	39
4.1.1.3.6.	Sending to the found recipients in the message	39
4.1.1.3.7.	Sending to the issuing last	39
4.1.1.3.8.	Automatic answering.....	39
4.1.1.3.9.	Addition in a database	40
4.1.1.3.10.	Sending to a FTP server	42
4.1.1.4.	SMTP	43
4.1.1.4.1.	SMTP server integrated	43
4.1.1.4.2.	SMTP server of sending	44
4.1.1.4.3.	Issuer of the messages.....	44
4.1.1.4.4.	Sending of the SMS by e-mail.....	45
4.1.1.5.	POP3.....	45
4.1.1.6.	Lotus Notes	46
4.1.1.7.	SMPP	47
4.1.2.	<i>GSM modems</i>	48
4.1.2.1.	Activated.....	50
4.1.2.2.	Symbolic name.....	50
4.1.2.3.	Serial port.....	50
4.1.2.4.	Operator	51
4.1.2.5.	Telephone number of the SMS server.....	51
4.1.2.6.	PIN statute book.....	51
4.1.2.7.	Telephone number of the map	51
4.1.2.8.	Not ask an opinion of putting back	51
4.1.2.9.	Not indicate delay maximum of putting back	52
4.1.2.10.	Reserved to the e-mail address.....	52
4.1.3.	<i>Indexes</i>	52
4.1.3.1.	Activated.....	53
4.1.3.2.	Index.....	53
4.1.3.3.	Description	53
4.1.3.4.	Interval of scrutation 	53
4.1.3.5.	Commands to execute.....	54
4.1.3.6.	Keys words to add.....	54
4.1.4.	<i>Tables</i>	54
4.1.4.1.	Activated.....	58
4.1.4.2.	Description	59
4.1.4.3.	Userid and password.....	59
4.1.4.4.	Lower part	59
4.1.4.5.	Table	59
4.1.4.6.	Names of the fields.....	59
4.1.5.	<i>Authorizations</i>	60
4.1.5.1.1.	SMTP	61
4.1.5.1.2.	Lotus Notes.....	62
4.1.5.1.3.	Telnet.....	63
4.1.5.1.4.	FTP	64
4.1.6.	<i>Alarms</i>	65
4.1.6.1.	Evènements	66
4.1.6.1.1.	Level of the GSM signal insufficient	67
4.1.6.1.2.	Dysfunction of a modem	67
4.1.6.1.3.	SMTP server inopérationnel	67
4.1.6.1.4.	Index to scrutinize inaccessible.....	67
4.1.6.1.5.	Transmission queue depth.....	68
4.1.6.1.6.	Informing at the end of alarm	68
4.1.6.1.7.	Receipt of request of invalid sending	68
4.1.6.1.8.	Opinion of check of a SMS receipt of the operator.....	68
4.1.6.1.9.	In case of error of sending by FTP	68
4.1.6.2.	Actions.....	69
4.1.6.2.1.	Depolt in the journal of event	69
4.1.6.2.2.	Addition in the file.....	70
4.1.6.2.3.	Execution of the command.....	70
4.1.6.3.	Messages	71

Communications et VM SAS

4.1.6.4.	<i>Code and alarm messages</i>	72
4.1.7.	<i>Annual</i>	73
4.2.	OPERATION OF SMS-MONITOR	74
4.2.1.	<i>Inactive fashion</i>	74
4.2.2.	<i>Active fashion</i>	75
4.2.3.	<i>Window comforts</i>	76
4.2.4.	<i>Sending of a message</i>	77
4.3.	STATISTICS	78
4.4.	SAUVEGARDE/RESTAURATION	79
5.	SMS-EXPRESS MONITOR TO WINDOWS	80
5.1.	USE	84
5.1.1.	<i>List of the SMS messages broadcasted or in emission</i>	87
5.1.2.	<i>Creation of a SMS message</i>	90
5.1.3.	<i>Management of the address GSM of your corresponding</i>	92
5.1.3.1.	<i>Annual of the SMS application-express Monitor</i>	92
5.1.3.2.	<i>Outlook annual express ® and SMS-express Monitor</i>	92
5.1.3.3.	<i>Selection of an or several address GSM in the annual</i>	94
5.1.3.4.	<i>Selection of a list of Excel diffusion</i>	96
5.1.4.	<i>List of the SMS messages received</i>	97
5.1.5.	<i>Meter of operation of the 'Service SMS-Monitor'</i>	101
6.	SMS OPERATEUR APPLICATION-MONITOR VIA NAVIGATOR	102
6.1.	USE OF THE OPERATOR APPLICATION SMS-MONITOR	103
6.1.1.	<i>Access to the application</i>	103
6.1.2.	<i>Follow-up of the SMS messengers</i>	104
6.1.2.1.	<i>Presentation of the follow-up of the SMS messengers</i>	104
6.1.2.2.	<i>Descriptive of the SMS messengers</i>	105
6.1.2.3.	<i>Search on SMS messengers</i>	106
6.1.3.	<i>SMS received</i>	107
6.1.3.1.	<i>Presentation of the SMS received</i>	107
6.1.3.2.	<i>Descriptive of the SMS received</i>	108
6.1.3.3.	<i>Search on SMS received</i>	108
6.1.3.4.	<i>Eliminating some SMS</i>	109
6.1.4.	<i>Management of the backs</i>	109
6.1.4.1.	<i>Classifying the SMS</i>	110
6.2.	INSTALLATION OF THE OPERATOR SMS-MONITOR NAVIGATOR APPLICATION	111
6.2.1.	<i>Installation of EasyPHP 1-8</i>	111
6.2.2.	<i>Installation of SMS-Web Monitor</i>	113
6.2.3.	<i>Installation of the ODBC MySQL 3.51 driver</i>	114
6.2.4.	<i>EasyPHP configuration</i>	115
6.2.4.1.	<i>Configuration of the Apache web server</i>	115
6.2.4.2.	<i>Modification of the .htaccess file</i>	115
6.2.4.3.	<i>Modification of the logins and password to have access to SMS-Web Monitor</i>	116
6.2.5.	<i>Creation of the ODBC data sources</i>	116
7.	INTERFACES TO APPLICATIONS	118
7.1.	FILES API.....	118
7.1.1.	<i>Sending of messages</i>	118
7.1.2.	<i>Yield of treatment</i>	120
7.1.3.	<i>Examples of files treated by SMS-Monitor</i>	121
7.2.	RECEIPT OF SMS	122
7.2.1.	<i>Example of SMS received</i>	123
7.3.	DATABASE INTERFACE	123
7.3.1.	<i>Sending of SMS</i>	123
7.3.2.	<i>Receipt of SMS</i>	124
8.	SMS-DOMINO MONITOR AND LOTUS NOTES	125
8.1.	SENDING OF SMS BY THE MEMO FUNCTION	125
8.1.1.	<i>Towards a bases mail</i>	125
8.1.2.	<i>Towards a domain note foreign or SMTP</i>	128

8.2.	SENDING OF SMS BY THE LOWER PART OF SENDING OF THE SMS	129
8.2.1.	<i>Choice of the recipients</i>	131
8.2.2.	<i>Management of the lists of diffusion</i>	132
8.2.3.	<i>Management of the models of SMS message</i>	135
8.2.4.	<i>Sending of the SMS message</i>	137
8.3.	SENDING OF SMS BY THE CLIENT MODULE SMS-NOTE.....	137
8.4.	FOLLOW-UP OF THE EMISSION OF THE SMS	140
8.5.	CONFIGURATION OF THE DOMINO SERVER.....	141
8.5.1.	<i>DOMINO R5 configuration, R6 or R7 to SMTP</i>	142
8.5.2.	<i>DOMINO R5 configuration, R6 or R7 to a foreign domain</i>	144
8.6.	CREATION OF THE LOWER PART OF SENDING OF THE SMS.....	146
8.6.1.	<i>Settings</i>	147
8.7.	CREATION OF THE LOWER PART OF FOLLOW-UP OF THE SMS	148
8.8.	TELEVISION BROADCASTING OF SMS-NOTE	149
8.9.	SMS-MAILALERT	149
8.9.1.	<i>Installation</i>	150
8.9.2.	<i>SMS-MailAlert lower part</i>	154
8.9.2.1.	<i>Structure of the application</i>	154
8.9.2.2.	<i>Definition of the parameters</i>	154
8.9.2.3.	<i>Definition of the period of absence</i>	155
8.9.2.3.1.	<i>Definition of the GSM number to use</i>	155
8.9.2.3.2.	<i>Definition of the messages by triggering the SMS sending</i>	155
8.9.2.3.3.	<i>Definition of the contents of the SMS</i>	156
9.	SMS-MONITOR ET MS-EXCHANGE	157
9.1.	CONFIGURATION OF AN EXCHANGE 2000/2003 SERVER.....	157
9.2.	CONFIGURATION OF AN EXCHANGE 5.5 SERVER.....	159
9.3.	SENDING OF SMS WITHOUT ADD -WE	161
9.4.	SENDING OF SMS WITH SMS-OUTLOOK.....	162
9.4.1.	<i>Spreading out of SMS-Outlook</i>	163
9.4.2.	<i>Use of SMS-Outlook</i>	163
10.	SUBMISSION OF THE REQUESTES	166
10.1.	SUBMISSION SINCE A CLIENT OF CARRYING TRADE.....	166
10.1.1.	<i>Towards a domain of carrying trade</i>	166
10.1.2.	<i>Towards a mail boxes</i>	167
10.1.2.1.	<i>In the address of recipient</i>	167
10.1.2.2.	<i>Using the GSM key-word</i>	168
10.1.2.3.	<i>Using the key-words of the files API</i>	169
10.2.	SUBMISSION BY TELNET	169
10.3.	SUBMISSION BY FTP	172
10.3.1.	<i>In interactive fashion</i>	173
10.3.2.	<i>In fashion commands</i>	175
11.	APPENDICES.....	176
11.1.	SENDING OF ALARMS TOWARDS THE PERSONNEL OF OBLIGATION	176
11.2.	PARTICULAR CONFIGURATIONS.....	178
11.2.1.	<i>Sending some SMS by e-mail without SMTP domain specific</i>	178
11.2.2.	<i>Operation with two servers note in cluster </i>	179
11.3.	CONTENTS OF THE JOURNALS	180
11.3.1.	<i>Journals of the issued and messages abandoned</i>	180
11.3.2.	<i>Journals of the SMS received</i>	181
12.	MAINTAINING OF THE SOFTWARES CVM	182
12.1.	DEFINITION OF THE SMS APPLICATION-MONITOR	182
12.2.	DEFINITION.....	182
12.3.	TECHNICAL PRESENCE-HOT CVM LINE AND PRESENCE	182
12.4.	OBLIGATIONS OF THE CLIENT	183
12.5.	BOUNDARIES OF THE MAINTAINING.....	183
12.6.	TREATMENT OF THE ANOMALIES – LEVEL OF GRAVITY	183

13. GUARANTEES.....	185
13.1. GUARANTEE OF THE CVM SOFTWARE'S.....	185
13.2. GUARANTEE OF THE WELL STOCKED FACILITIES BY CVM	185
14. OTHERS APPLICATIONS CVM.....	186

1. SOLUTION SERVER SMS-MONITOR

1.1. Introduction

SMS-Monitor a platform for communication which is used in conjunction with other applications, including batch processing and messaging, etc...

In the case of a LAN environment or in front of a computer, SMS-Monitor is completely independent of the topology of it and the manager.

The solution SMS-Monitor consists of :

- a solution communication equipment which are GSM modems and wireless antennas. It is a wireless application. It does not connect to the traditional telephone network.**
- of the SMS-Monitor, server processing transmit / receive SMS messages .**

SMS-Monitor is used from products such as Lotus Notes (domino), Outlook/MS-Exchange and all the SMTP carrying trade or with a SMTP interface module.

A file API permits also interfacing very comfortably all data processing application (see chapter 5).

If SMS-Monitor must manage more GSM modems than serial ports available on the server, it is necessary to establish a multi-card brand RS232 intelligent Digi (from 2 to 64 channels depending on model).

The requests for sending messages to mobile phones may be submitted in several ways and how to handle SMS received:

- By filing complaints files
- in a shared directory.
- By e-mail (SMTP).
- For Lotus Notes.
- Since a database (all bases with an ODBC connector - Oracle, SQL Server, MySQL, DB2, Informix, Sybase, Access, etc.).
- Via an FTP client.
- Via a Telnet client.
- Via an editor to the server.
- Via SMPP client (in this case SMS-Monitor simulates a server SMS-C).

Any application software knowing or send e-mails is also capable of sending SMS messages. In particular, software monitoring and warning such as CVM-Alert Patrol (BMC), Tivoli (IBM), Works (CISCO), WhatsupGold, SUN-ALERT (SUN SOFTWARE), are able to immediately transmit warnings officials call (management information and / or industrial).

1.2. Technical and functional features

Network
Available to all the operators French (orange, SFR, Bouygues and other).
Sending towards all the French operators as well as all those having of the agreements of roaming with them all over the world.
Connection between the Server SMS-Monitor and the operators of hertzian type (traceability, security, reliability)

Communications et VM SAS

RCS Paris B 331 758 904 SAS capital 152.449,02Euros 10 Cité Beauharnais - 75011 PARIS	SMS-Monitor	Tel : +33 (0)1 43 67 09 03 www.cvm.fr Page 8 sur 189
---	-------------	--

Solicits a simple SIM map of any subscription to insert in the modem.
Sending of more than 500 SMS to the hour with an only modem.
Possibility to deport the GSM modems and the aerials through an Ethernet local area network via of the cases of backwardation in relation to the microcomputer that rotates the SMS application-Monitor in command to have a good signal.
Of to 64 modems managed by a SMS -Monitor server.
Interfaces of submission of the SMS
<ul style="list-style-type: none"> ▪ Depolting of files of requests in of the divided indexes. ▪ Addition of registrations in a database (all base having an ODBC connector – oracle, SQL Server, MySQL, DB2, Informix, Sybase, Access, etc). ▪ Sending of e-mail by SMTP. SMS-Monitor integrates a SMTP server. All application or software package knowing how send some e-mails is therefore capable sending also of the SMS. In particular, the software packages of supervision and alert such as CVM-Alert, Patrol (BMC), Tivoli (IBM), Works (CISCO), WhatsupGold, SUN-ALERT (SUN LOGICIEL), etc..., are like this capable transmitting immediately the alarms to the person responsible of obligation (and/or business data processing industrial). ▪ Sending of e-mail in a dedicated mail boxes. SMS-Monitor integrates a POP3 client to extract the messages to send by SMS. ▪ Sending of memo by Lotus Notes (see the different possibilities interface in the chapter : Lotus interface note – SMS-Monitor have different solutions that cover the protection of the informatique Network: Lan/Wan – use of a SMTP domain, the management of the authorizations to the declaration of an external domain SMTP, etc...). ▪ Transmission by a FTP client. SMS-Monitor integrates a FTP server. ▪ Interactive submission via a Telnet client. ▪ Graphic Windows application. ▪ SMS-Monitor have an API.
Functionalities of sending
<ul style="list-style-type: none"> ▪ Cutting up of the messages of more than 160 characters. Lare SMS resultants are commandly and therefore numbered. ▪ Automatic testing of submission to the operator. ▪ Treatment of the opinions of putting back (they contain the well stocked telephone numbers by the GSM reached) or returned abandonment by the operator. ▪ Assigning of duration of validity of the messages. ▪ Possibility to ask an accused of hold in account. ▪ Cascades of appeal in case of no confirmation of hold in account (very import to automatons of alarms). ▪ Specific treatment to the alarms towards the personals of obligation. ▪ Management of authorizations of sending of SMS.
Treatment of the SMS received
<ul style="list-style-type: none"> ▪ Recopies in a divided index. ▪ Execution of an command. ▪ Sending by SMTP to an e-mail recipient. ▪ Sending in a bases lotus mail note (complementary applications understand in the standard version of the SMS -Monitor server). ▪ Search of the recipient of the SMS by analysis of the contents or follow the last by having sent a SMS to the Issuer. ▪ Addition in a database. ▪ Depolting in an index of a FTP server. ▪ Display in a puts windows in surgissante.
Various features
<ul style="list-style-type: none"> ▪ Preventive alarms in case of dysfunction. ▪ Journals of emission and receipt. ▪ Possibility to reserve a modem to the exclusive use of an user. ▪ Historical record of the treatments of the server. ▪ SMTP relay: the received e-mails by the Server SMS-Monitor destined to another domain that the one created to the SMS is rerouted towards another SMTP server.
Interfaces of submission of the SMS
User application under Windows.

Communications et VM SAS

User application to Lotus Notes
User application to Outlook/MS-Exchange
User application under Windows concerning SMS-Mailer Monitor
Platform of exploitation and features of the application
<ul style="list-style-type: none"> ▪ Microcomputer under Windows 2000 operating system, 2003 or XP. ▪ Graphic application to the settings of the SMS-Monitor server. ▪ Graphic application to the settings of the count and definite database. ▪ Graphic application to the settings of the trigger function of alarms concerning the carrying forward of anomalies detected (events, actions-adjust, messages – middle transmission). ▪ Application of settings in French and in English. ▪ Application multi-try to Windows 32 bits, written in C++ (object programme planning).
Additional operational features
<ul style="list-style-type: none"> ▪ SMS-MailAlert application that permits to an user of the lotus carrying trade note receiving automatically on his telephones GSM during his periods of absences of the important arrival information in his 'Courrier' function in arrival. Dare filter allow managing the types of information to turn, as well as the acceptable volumes of data to transfer (see the SMS-MailAlert chapter). ▪ SMS application-Mailer Monitor. It allows to the sendings in mass of SMS messages multi-operators like the mailing function of a word processor, as well as the management of these sendings (see the SMS chapter-Mailer Monitor). ▪ SMS-Echo application called upon by SMS-Monitor, allows : <ul style="list-style-type: none"> 1. Send away the SMS received towards the GSM of an or several declared users, according to a codes detected Ite in the SMS received ; 2. Returning an acknowledgment towards the GSM of origin of the message (see the specific documentation that is not enclosed in this manual). ▪ Specific applications with use of the protocols 3270, 5250, etc....

1.3. Security

SMS-Monitor uses one or more modems. Those-here is not pluggable to the commuted telephone network, they have any connector can be connected on a telephone line or ISDN. The only possibility to communication with the exterior world is, as in a conventional mobile phone, the hertzian Network GSM.

The only possible communications do therefore between the modem and his aerial and the relays of the operator having provided the SIM map inside the modem. Same when we send or receives a SMS, it's not of it has any direct possible communication with the issuer or the receptor of the SMS.

The Wavecom modem used by SMS-Monitor has any driver Windows. It's managed by SMS-Monitor via a serial port exclusively. It's not therefore possible using it to of the communications other than SMS, that the service of distant access Windows. The serial port being open by the SMS application-Monitor, any other application cannot of it have access.

Only the command AT allowing sending and receiving some SMS and configuring the modem is managed by the SMS session-Monitor. Any other communication mode is not therefore possible, including the data originations in DATA fashion.

It's easy settling oneself firmly to him bus, By ticking the box the "trace" hut in the window SMS-Monitor, all the bi-directional communication by the serial port between SMS-Monitor and the modem is displayed.

The GPRS functions are not activated and are not operational.

It does not exist therefore any middle taking the roll of the computer through the modem. It not exist either any possibility to receipt of file, text or binary.

The modem is used in text mode (vs. PDU). It cannot therefore nor emit nor receive some binary files such as the ringing or the logos, susceptible containing of the virus.

Communications et VM SAS	SMS-Monitor	Tel : +33 (0)1 43 67 09 03 www.cvm.fr
RCS Paris B 331 758 904 SAS capital 152.449,02Euros 10 Cité Beauharnais - 75011 PARIS		Page 10 sur 189

The SMS received are exclusively in maximum text and length of 160 characters (limit standard). Any virus cannot therefore be received by this middle. By default, a SMS received is stocked in an under local index in text mode and is not treated that when you configure SMS-Monitor so that It sends it in e-mail, by FTP, etc... By default, the possible SMS received remain as file in the Recv. Subdirectory. It is possible to configure SMS-Monitor so that it eliminates automatically these messages at the end of a certain day number.

1.4. Format of the numbers of GSM of the recipients

The SMS is addressed to the GSM indicating the telephone number of the SIM map that they contain. There are two possibility specifying this number:

- In national format: on 10 figures begin by 06.
Example: 0660424809.
- In international telephonic format: 00 ccnnnnnnnn where cc is the telephonic statute book international (33 to the France, 1 to the United States of America, 32 to the Belgium, etc) and nnnnnnnnnn the number of the SIM map without 0 heures in head.
Example: 0033660424809.
- In international format normalized: + ccnnnnnnnn where cc is the telephonic statute book international (33 to the France, 1 to the United States of America, 32 to the Belgium, etc) and nnnnnnnnnn the number of the SIM map without 0 heures in head.
Example: +33660424809.

When the recipient has a SIM map of a French operator (Orange, SFR, Bouygues, Orange Caraïbe, etc), the number can, by choice, is specified in the three formats.

On the other hand, to all the other destinations, the numbers must be specified in one of the two international formats.

1.4.1. FLASH SMS

The SMS sent in flash fashion are displayed since receipt, without intervening of the possessor of the GSM. These SMS has the detail of not be memorized in the SIM map and the recipient cannot use the function answers.

This fashion of sending is not perform supported throughout the GSM.

To send a message in flash fashion, It suffices making follow number of GSM of the recipient by the FLASH character strings in capital letter, concatenated with the number s same.

For example: 0660424809FLASH

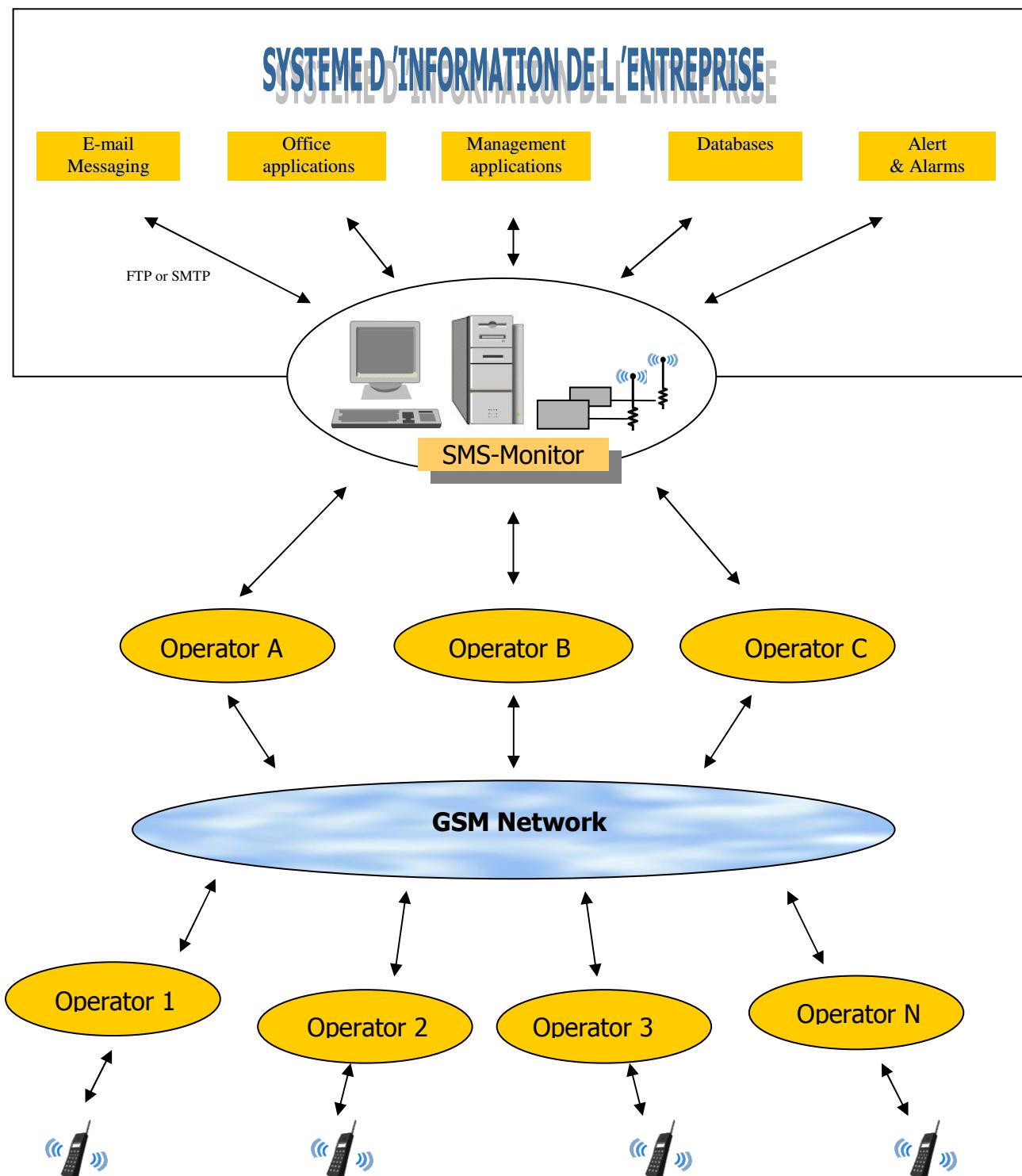
This method is valid some is the fashion of submission (integrated editor, FTP, SMTP, Lotus Notes, database, Telnet).

1.4.2. Particular case of Orange Caraïbe

Seeing the chapter "conversion of the numbers in international format" page 31.

2. ARCHITECTURE OF SMS-MONITOR

You desire be in communication comfortably and simply, without constraints a place and time at any time with of the station telephonic GSM. SMS-Monitor allows to send and receive some SMS messages via the different GSM Networks.



2.1. SMS-Monitor and the carrying trade of enterprise

SMS-Monitor interfaces naturally with all the enterprise. Carrying trade to that, It exists three methods can combine to him in a same implementation:

2.1.1. SMTP interface

SMS-Monitor integrates a SMTP server. It suffices therefore associating a name of SMTP domain to the machine where functions SMS-Monitor to can send some SMS specifying an address of destination of the form 06nnnnnnn@domaine.sms.

When the carrying trade of enterprise is MS-Exchange, the association between the name of domain and the address of the Server SMS-Monitor is executed is in the configuration of MS-Exchange same (see the configuration chapter of an Exchange server page 158), is in the DNS servers of the enterprise.

To the other SMTP servers, it is not possible declaring such association at configuration level of the server, it will be necessary declaring her/it in the DNS servers.

In the case of the use of a domino lotus server configured to execute a SMTP server, this technology can also be used. In this case, the SMTP domain foreign must be declared in the address books of domino (see rebukes in chapter DOMINO R5 configuration, R6 or R7 to SMTP page 141).

If we do not wish, or if we cannot create a SMTP domain, we can use the POP3 interface (see more far).

2.1.2. Lotus interface note

In the case where SMS-Monitor, is installed in a lotus context note, the communication between the SMS -Monitor server, the domino server and the lotus user's note can be executed via the interface Lotus Notes standard.

In this context, it's necessary installing a client Lotus Noteson the machine making function SMS-Monitor. Besides, its necessary declaring a lotus domain note foreign in command to associate to the created domain a lower part note that will occur exploit the client note used by SMS-Monitor.

The necessary definition in the address books of Lotus Notes is interface to the configuration chapter DOMINO R5, R6 or R7 to a foreign domain page 143).

Another method consists to create a new pseudo user note. To send a SMS, It suffices then using the lower part of sending of SMS enclosed in SMS-Monitor. That permits notably can select the GSM numbers declared in the address books of notes.

Another method consists to send some memos respecting the interface syntax to the chapter "towards a " page 166 mail boxes.

The mail lower part created by the server note to this pseudo user must be declared in the page "Lotus Notes" of the window of settings of SMS-Monitor (page 45).

It's also possible to implement the interface POP3 interface below.

2.1.3. POP3 interface

To use this method, it suffices using or creating a mail boxes in the server of SMTP carrying trade. This one will be dedicated to SMS-Monitor. After configured it in SMS-Monitor (see the POP3 chapter page 44), It suffices to the users sending some messages to the associated address to the mail boxes respecting the explained syntax to the chapter towards a 166 mail boxes.

This mail boxes are regularly verified by SMS-Monitor that in extract all the messages found and the uses to do some requests of sending of SMS.

In a context of lotus carrying trade note that solicits simply the registration of a new pseudo user. Like this a bases mail will be created in the under index Data\Mail of the domino server. It will be declared in the page of POP3 configuration.

2.2. Sending by SMS of alarms produced by of the applications of supervision

One of the frequent uses of SMS-Monitor is the sending of alarms by SMS towards the GSM of the personnel call.

Essentially, three cases presents to him:

1. An application home detects an anomaly of operation and goes generate himself the alarms. In this case the procedures and/or program are adapted to do seek any of the middle things of submission to make available by the Server SMS-Monitor in standard: files, FTP API, Telnet, SMTP, POP3, Lotus Notes.
2. The alarms are triggered by of the specialized software packages that supervise the elements by composing the data processing of the enterprise: equipments, Networks, treatments. In this category, we can notably quote CVM-Alert, Patrol, Tivoli, What Up, Track It, TNG, etc...
3. The alarms are triggered by of the intelligent equipments: computers having function of car-diagnosis, detector of intrusion or fire, etc...

In these two last cases, among the middle thing to alert that are proposed, finds to him today systematically the e-mail. Like indicated, above, SMS-Monitor have a SMTP interface. It becomes from that time onwards extremely easy making send some SMS of alarm via the server SMS-Monitor.

In the configuration of the software package of supervision or the equipment sending the alarms, it suffices from that time onwards configuring two elements:

- 1) The address or the name of host of the SMTP server that will be loaded of the sending. In this case, it concerns to him directly of the computer on which functions SMS-Monitor.
- 2) The address of destination of the e-mail. It suffices specifying an address of the number@domain.sms form where number is the GSM number of the recipient and domain.sms is the name of the SMTP domain potential declared in the configuration of the SMS -Monitor server.

It exists two methods so that SMS-stretch Monitor the message alerts:

- 1) The alarm is sent successively to a list of GSM until one of them indicates that it takes in account the alarm.
- 2) The alarm is sent immediately to a list of concerned numbers. As soon one of them indicated that it takes in counting it alerts, all the other informed by a new SMS.

The implementation of these different functions executes to him inserting of the lines of text begin by \$SMS-Monitor: in command to happen to the server of the specific treatment that are normally available via the file API (see the chapter " files API " page 117). For example, a line such as:

\$SMS-Monitor: ALTNUMBER 0612345678/0698765432 ACKREQUIRED

Or

\$SMS-Monitor: VIRUS ALERTTYPE

Can check that the recipient of the message has taken in account the alert. In case of no confirmation in the time allowed, the server will execute a new sending towards the following number.

Another method implements the POP3 interface of SMS-Monitor. In this case, the alarm messages are sent to a mailbox of a POP3 server. To regular programmed intervals, SMS-Monitor extracts of this mailbox all the messages there finding. To each, it examines the contents of the text to of it detect some numbers of GSM (06nnnnnnn) and sends the message towards the numbers like this found.

2.2.1. Quick start implementation of the sending by SMS of alarms produced by of the applications of supervision

To implement the function e-mail2SMS, it suffices following the following procedure.

1) Defining a name of domain that will serve to the sorting and routing of the e-mails towards the Server SMS-Monitor (for example cvm.fax).

It must compulsorily contain at least a dawns.

2) Declaring this domain in the SMTP server. It concerns to him of a MS-Exchange server, turns to him to the chapter 7.

To all other SMTP server, declare the dedicated domain to the SMS and indicate that the intended e-mails to this one must be relieved towards the IP address of the machine on which is installed SMS-Monitor.

3) In the configuration of SMS-Monitor, SMTP tab, inform the zones of the SMTP server group of sending that is used to return the envoi. See page 50.

If we do not wish receive a yield of treatment check the hut "not return of yield of treatment" in the "messages" tab (see page 40).

4) Allowing the receipt of e-mails to send by SMS (rebuke in chapter 4.1.5), is to everybody, is declaring the address SMTP of the authorized users or applications.

At startup of the SMS-Monitor server, if a trouble report indicates that the SMTP server integrated does not could start that is probably because another SMTP server functions already on the computer.

In the case of a Windows 2000 or 2003 Server, that is very certainly the one of Windows.

That is the service that the name is "simple Transfer Protocol mail (SMTP)". It suffices repairing by invisible mending it and puts it in manual starting via the administrator of services of Windows.

When SMS-Monitor has beened started, can verify you that the SMTP server functions:

- Open a window of command
- Execute the following command
 - telnet localhost 25
- The following message must appear:
 - 220 Ready service
- Type
 - quit

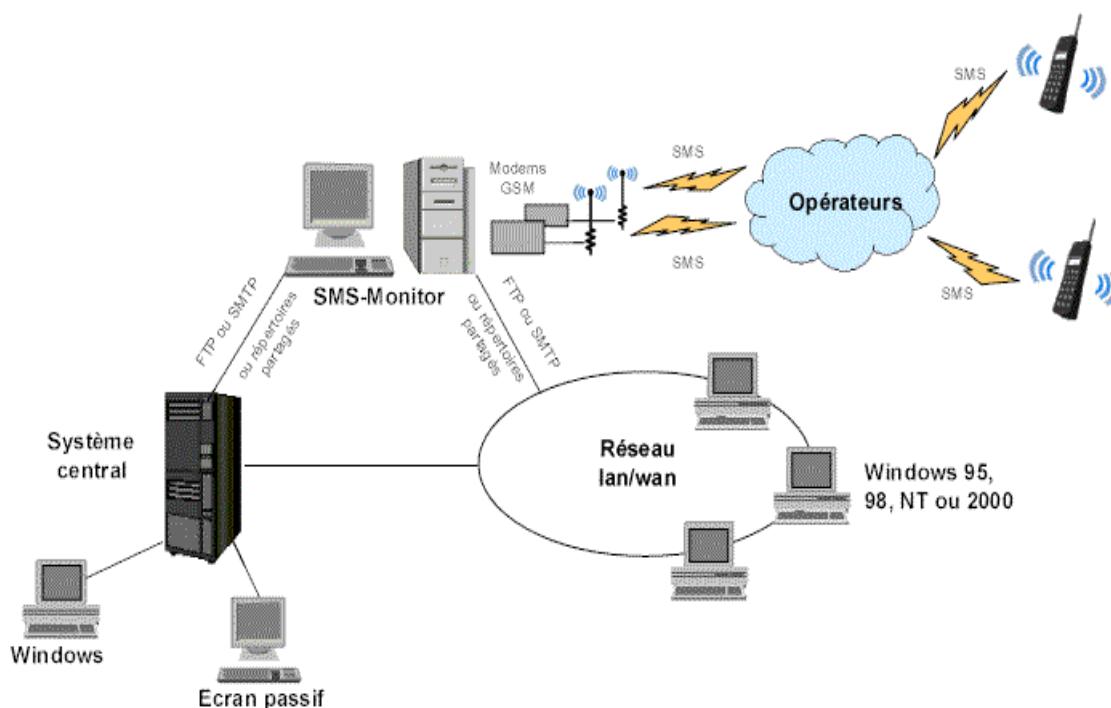
2.3. Sorting and routing of the SMS of answer

SMS-Monitor can treat of different ways the SMS that it receives: recopies in an index, execution of a command, addition in a database, sending to a FTP server or one - address of SMTP carrying trade or Lotus Notes.

For SMS sent to messaging, it is possible to specify an address towards which all will be controlled. A technology allows to let SMS-Monitor determine of -same the address of destination of each SMS received. Several options allow to choose what method will be used to find the good address:

- Searching for an address e-mail (utilisateur@domaine.xx) in the text of the SMS.
- Searching for what has beened the last user to send a SMS to the GSM issuer of the one that occurs being received.
- Since the version July 4.2 2005, It exists a third method, more easy to the issuer of the SMS of answer, that consists to send an identifying numerical instead of the e-mail address of the issuer. To this identifying am recognized and interpreted by SMS-Monitor, It suffices inserting it between two pound signs (for example #34#). Indeed, this sign, like the figures is directly accessible on the keyboard of the GSM. The chapter options page 35 explains how implement this functionality.

3. IMPLANTATION TYPE OF SMS-MONITOR



3.1. Presentation of the proposed equipment

(**GSM modem**)

The GSM modem equipment is a Wavecom mark. It manages a communication channel. Follow the of the present day norm, It has a speed of 9.600 bauds. The joining to the operator is executed through the intermediary of antenna that is delivered by the constructor with the modem.

These modems are delivered with the packs SMS-Monitor that receives the client.

SMS-Monitor knows how manage simultaneously several facilities of this type, in input/in out.

It's of type 900 MHz to the French operators Itinéris and SFR and type 1800 MHz to the Bouygues operator Telecom. It's very important indicating us at the time of a command the operator or the operators that will be concerned (s) by your SMS-Monitor installation.

3.2. Softwares and module compose the platform

The SMS -Monitor server:

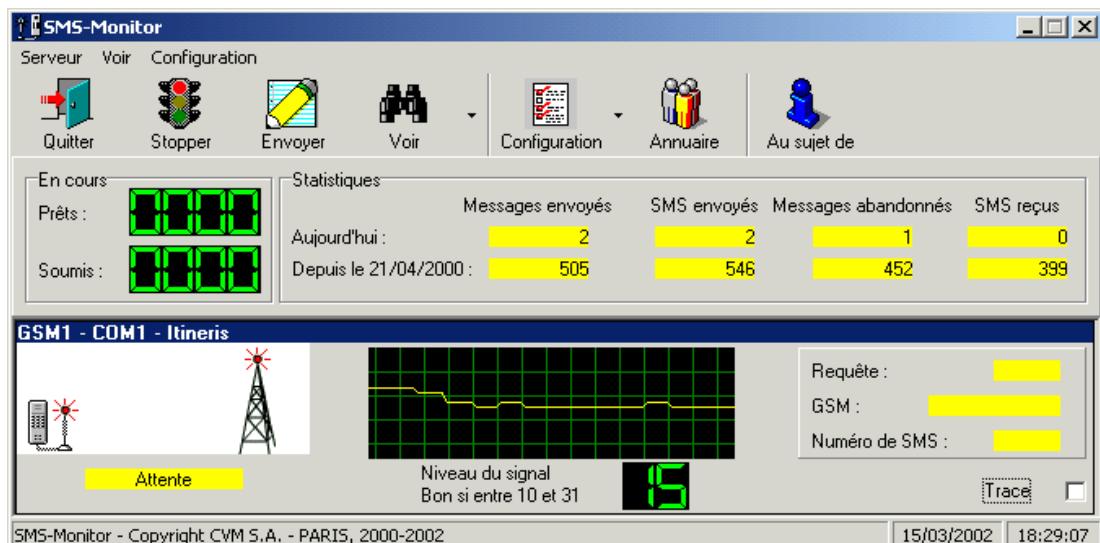
- manages the communication media, the GSM/antenna modems hertzian,
- manages the general waiting line of the SMS delivered/received messages,
- Treat automatically the requests of request of sending constituted since the application producing the files to broadcast (that the automatic cutting up of those-here in several SMS messages they pass 160 characters).
- A sole number is assigned to each of the messages by the application. If several SMS messages represent a file to negotiate each among numbered them in the command of manufacture and the number is enclosed automatically to the transmittal data under the

- x/n form. This solution permits to the user of the GSM telephone of the lira in the command of production),
- creates automatically an accused of putting back by message and a notification of total depolting when there are several SMS messages to a file to broadcast on receipt of the produced datas by the operator. These yields of treatment are set down by SMS-Monitor in a specific index,
 - receives the messages broadcasted by the GSM and the stretch according to the executed settings (see more far).
 - generating of the alarms in case of problem embarrassing the good operation of the server,
 - have an annual permitting the registration of the telephone numbers of the cellular thing to reach,
 - edits the statistics of use of SMS-Monitor,
 - uses the SMTP protocol or the files API to be in communication with the concerned applications.

The SMS application-Monitor under Windows 2000, 2003, or XP, all overturn implanted on the frontal microcomputer uses fully the multi-try of Windows 32 bits. It's written in C++ (object programme planning).

Each GSM modem is managed by an independent task. The business-oriented process of the waiting line, of SMTP communication, of releasing of alarm is also of the dissociated tasks.

The frontal microcomputer is not in general dedicated to the SMS application-Monitor, counts-held of the feeble begotten consummations when this application functions.



3.3. Installation

3.3.1. Necessary equipments to the implementation

SMS-Monitor will be implanted on a microcomputer under Windows 2000, 2003 or XP, all overturn, enclosed in the and/or local area network in frontal of a central system.

It's not dedicated to the application, but the revitalize necessary to his good operation must be available (for example, a good terminal response of the processor and the hard disk).

The used microcomputer must them have revitalize necessary to the operating system used and at least a serial interface.

3.3.2. Material installation

The SMS pack-Monitor is compound of this documentation, of the CD of installation of the software and one or several boxes containing one or several radio modems.

A box of radio modem must contain:

- the modem s same,
- the electric alimentation,
- a serving cable to bind the modem to the electric alimentation,
- a serving cable to bind the modem to the PC; the occupied series is of DB9 type male,
- an aerial with a magnetic lower part,
- a length twists allowing to connect the aerial to the modem

Bind between them the different elements.

The aerial must be placed to a place s allow to have access to the GSM telephone network.

It's preferable placing it close to a window and far from all strong electric or electromagnetic spring.

Besides, we must not install the PC, the modem and his aerial in a basement.

However, if the PC must be placed in a place secured, where the GSM signal does not happen, It suffices deporting the modem and the aerial and using a pair of base band modems to bind them via a joining 2 sons (case of backwardation of port arranges in series-consults us).

On the face before the modem, finds to him a small button. The modem being outside tension, use the point of a pen to drive gently this button.

That allows leaving the support of the SIM map. Insert in this one the map that will allow to be accepted by the Network you of your telephonic operator.

Like in a GSM academic, the chamfered in the angle of map avoids to deceive to him a sense. Knock in after the support in the crack.

When there are more of modems to connect that of available serial ports on the server, the upright pack also a map multi-RS-232 of DIGI mark.

In this case, it's necessary stopping electrically the PC, opening it and of it installs the map. After started again NT, It will be also necessary installing and configuring the |driver| of this map. *To that, turns to him to the documentation and to the delivered CD with the DIGI map.*

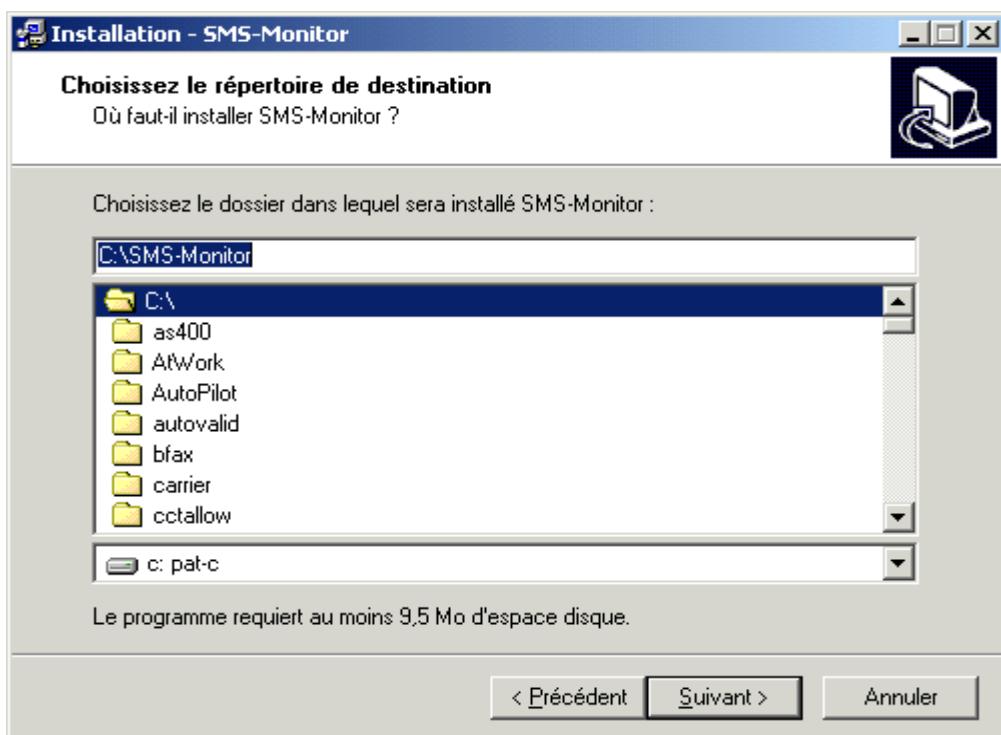
3.3.3. Software installation

You can receive the CD of installation of SMS-Monitor or downloaded it since our Web Ite www.cvm.fr. In the two cases, execute the module SMS-Monitor.exe. It concerns to him of a program of car-installation.

IMPORTANT: It concerns to him of a reinstallation, follow exactly the same procedure that is it concerned to him of the first installation. *Indeed, the settings files, the settings, the journals and historic are not altered by the procedure.*

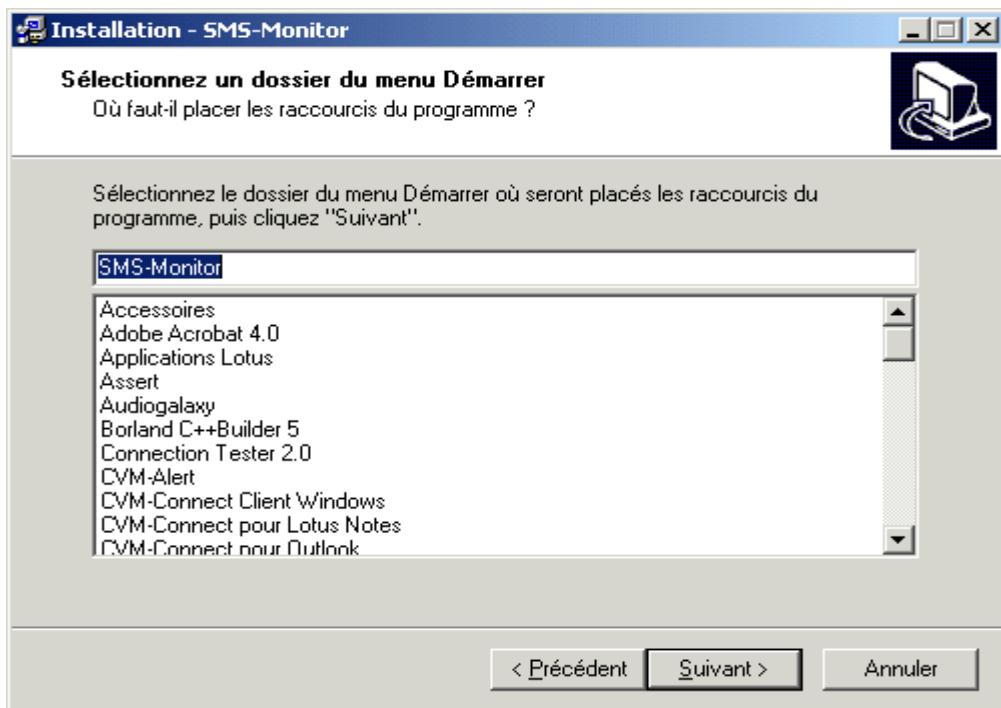


Click on follow.



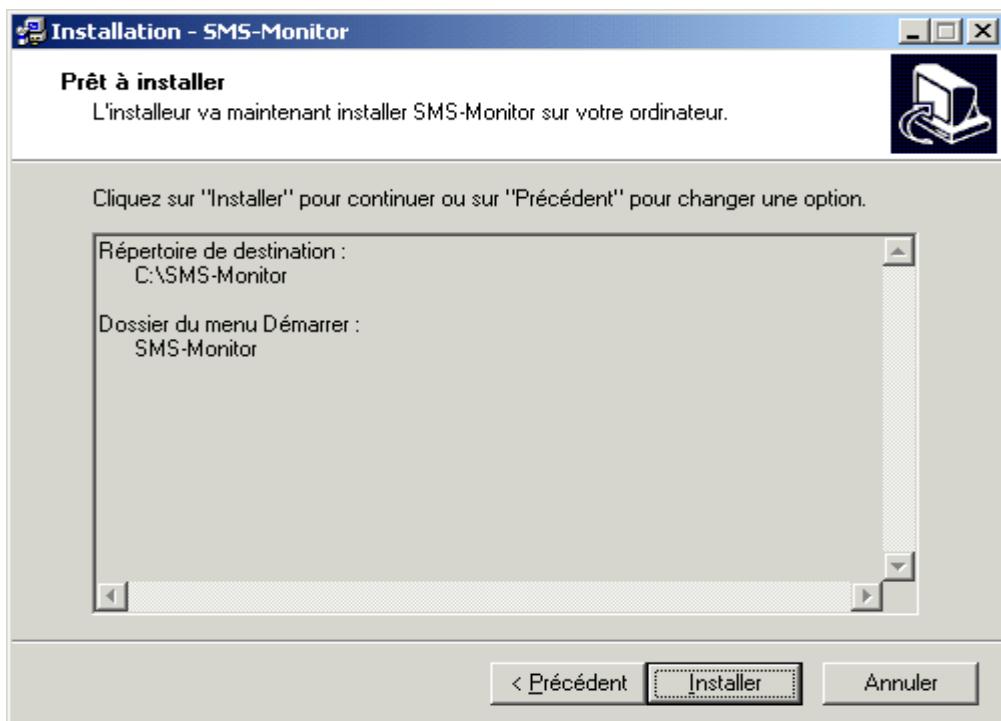
By default, the installation proposes like index of C: installation \SMS-Monitor. You can indicate all other index, including an index finding on a server of file.

After have if necessary selected another index of installation, click on « Suivant ».



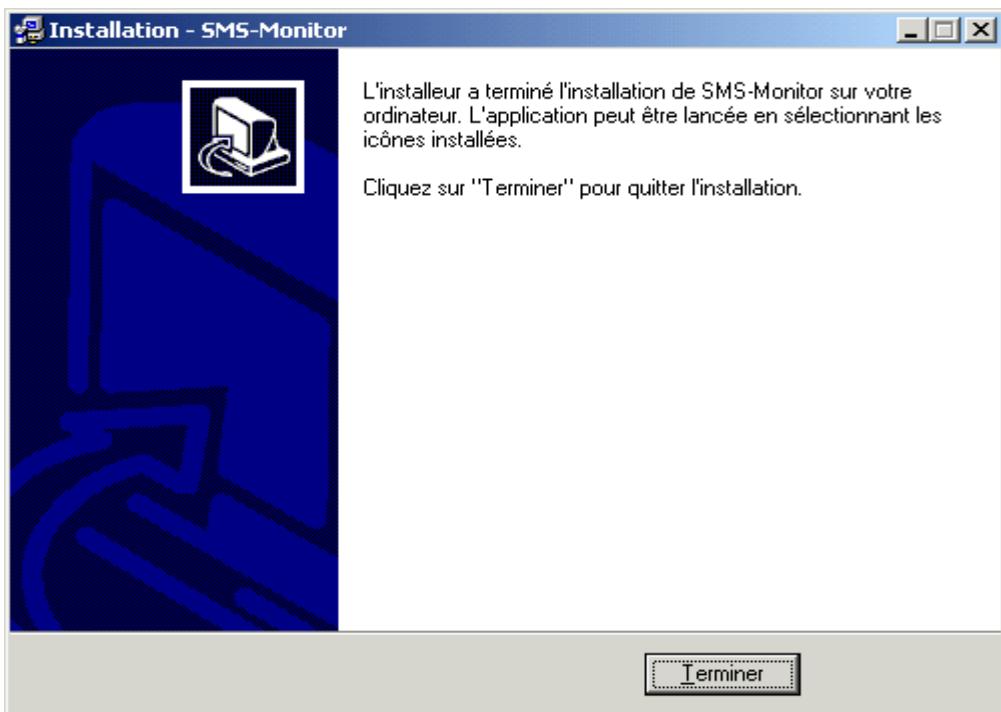
Before creating the back of installation of SMS-Monitor, the procedure you propose modifying his name by default. We recommend you strongly keeping the name SMS-Monitor.

Click on «Next».



If the options of installation you agree, click on «Install». Otherwise, you can still click on «Previous» and modify your choice.

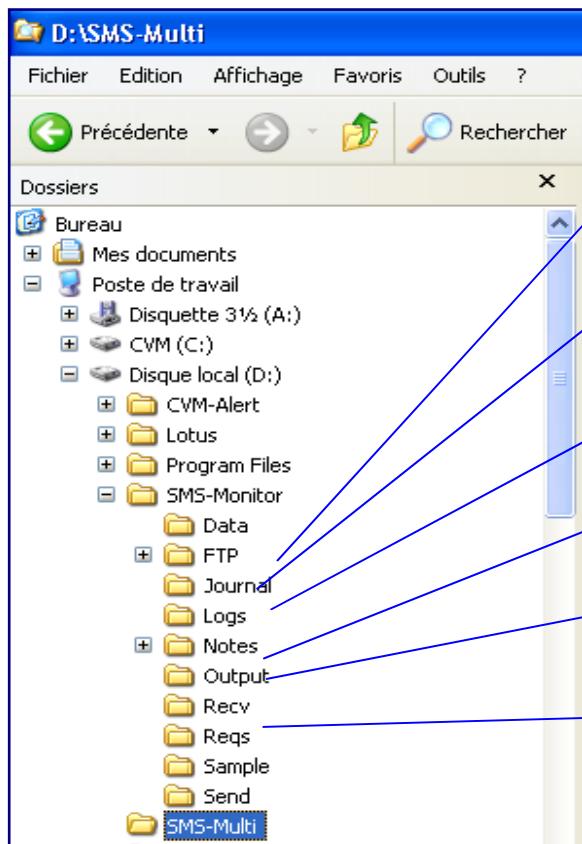
At the end of the installation, the screen appears down :



The box of dialogue «SMS-Monitor Start Manager» appears then. The following paragraph explains his use.

3.4. Arborescence of the indexes of SMS-Monitor

We specify you the arborescence of the indexes of the SMS-Monitor application:



This index understands the different SMS-Monitor journals:

- ERRJournal.CSV : Journal of the SMS in errors, did not could be broadcasted.**
- RCVJournal.CSV : Journal of the SMS received.**
- SNTJournal.CSV : Journal of the SMS broadcasted.**

In this index finds the daily logs of the SMS receipts/ issued in treatments error. There is a log by day.

This index contains the waiting messages of sending towards the lotus user's note

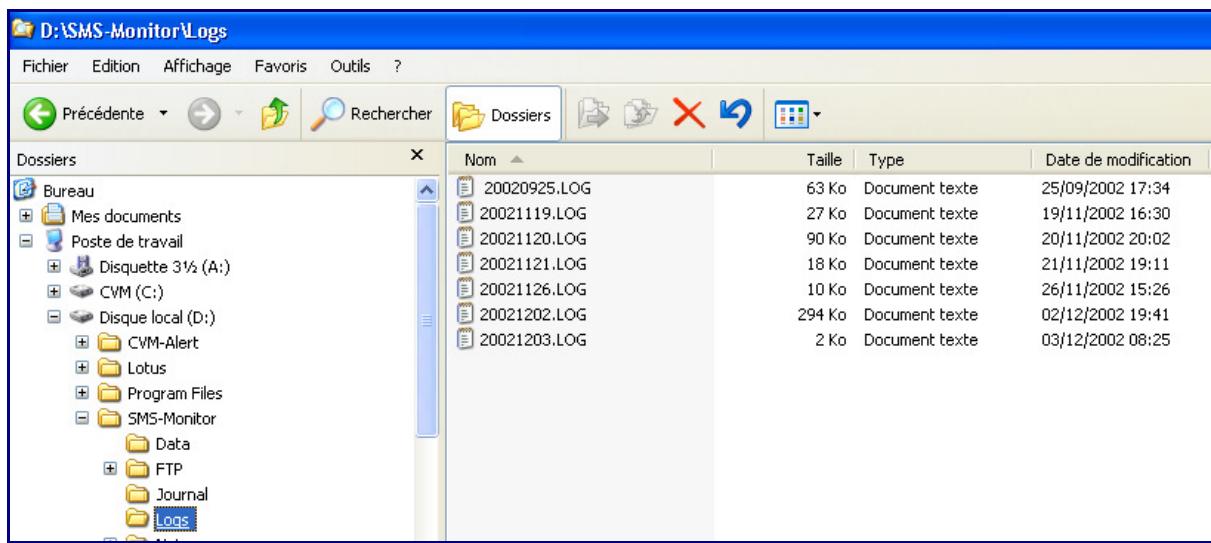
In this index, finds to him all the SMS requests received.

This index contains the files describing the requests in progress and recently negotiated.

In this index, finds to him the SMS requests produced by SMS-Monitor -same.

It's imperious that you safeguarded regularly these indexes.

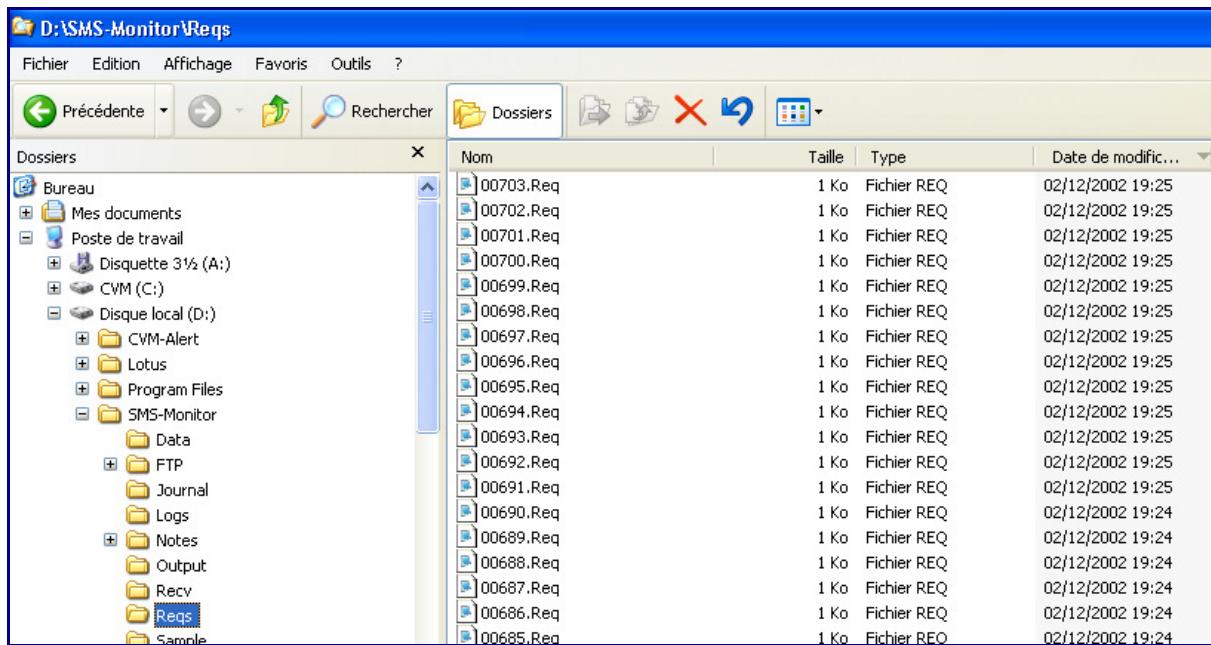
Index of the daily logs



D:\SMS-Monitor\Logs

Dossiers	Nom	Taille	Type	Date de modification
Bureau	20020925.LOG	63 Ko	Document texte	25/09/2002 17:34
Mes documents	20021119.LOG	27 Ko	Document texte	19/11/2002 16:30
Poste de travail	20021120.LOG	90 Ko	Document texte	20/11/2002 20:02
Disquette 3½ (A:)	20021121.LOG	18 Ko	Document texte	21/11/2002 19:11
CVM (C:)	20021126.LOG	10 Ko	Document texte	26/11/2002 15:26
Disque local (D:)	20021202.LOG	294 Ko	Document texte	02/12/2002 19:41
CVM-Alert	20021203.LOG	2 Ko	Document texte	03/12/2002 08:25
Lotus				
Program Files				
SMS-Monitor				
Data				
FTP				
Journal				
Logs				
Req				
Sample				

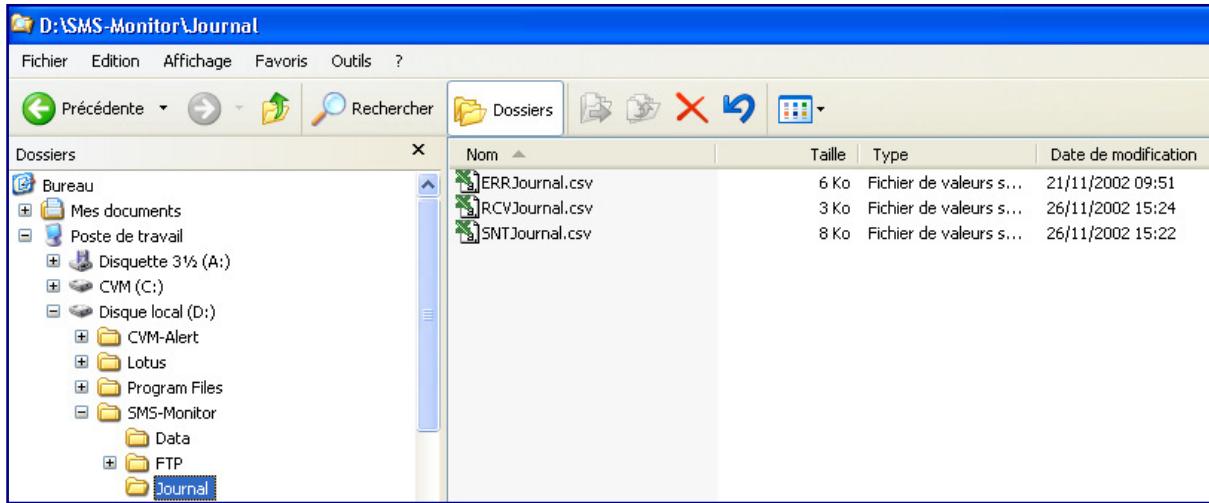
Index of the requests to send



D:\SMS-Monitor\Reqs

Dossiers	Nom	Taille	Type	Date de modif...
Bureau	00703.Req	1 Ko	Fichier REQ	02/12/2002 19:25
Mes documents	00702.Req	1 Ko	Fichier REQ	02/12/2002 19:25
Poste de travail	00701.Req	1 Ko	Fichier REQ	02/12/2002 19:25
Disquette 3½ (A:)	00700.Req	1 Ko	Fichier REQ	02/12/2002 19:25
CVM (C:)	00699.Req	1 Ko	Fichier REQ	02/12/2002 19:25
Disque local (D:)	00698.Req	1 Ko	Fichier REQ	02/12/2002 19:25
CVM-Alert	00697.Req	1 Ko	Fichier REQ	02/12/2002 19:25
Lotus	00696.Req	1 Ko	Fichier REQ	02/12/2002 19:25
Program Files	00695.Req	1 Ko	Fichier REQ	02/12/2002 19:25
SMS-Monitor	00694.Req	1 Ko	Fichier REQ	02/12/2002 19:25
Data	00693.Req	1 Ko	Fichier REQ	02/12/2002 19:25
FTP	00692.Req	1 Ko	Fichier REQ	02/12/2002 19:25
Journal	00691.Req	1 Ko	Fichier REQ	02/12/2002 19:25
Logs	00690.Req	1 Ko	Fichier REQ	02/12/2002 19:24
Notes	00689.Req	1 Ko	Fichier REQ	02/12/2002 19:24
Output	00688.Req	1 Ko	Fichier REQ	02/12/2002 19:24
Recv	00687.Req	1 Ko	Fichier REQ	02/12/2002 19:24
Reqs	00686.Req	1 Ko	Fichier REQ	02/12/2002 19:24
Sample	00685.Req	1 Ko	Fichier REQ	02/12/2002 19:24

Index of the different journals of SMS-Monitor



Example de Journal : SNTJournal.CSV

Microsoft Excel - SNTJournal.csv						
Date soumission;Heure soumission;Requête;Numéro GSM;Soumission;Origine;Référence;Attn;Objet;Caractères;SMS requis;Date transmission;Heure transmission						
1	12/02/2003	09:17:43	704	672774217	Editeur Intégré	
2	12/02/2003	09:42:13	705	664754000	Scrutation rép D:\SMS-Multi cvm	Verveer JJ
3	12/02/2003	09:42:15	708	672774217	Scrutation rép D:\SMS-Multi cvm	CVM
4						
5						

Example de Journal : ERRJournal.CSV

Microsoft Excel - ERRJournal.csv						
Date soumission;Heure soumission;Requête;Numéro GSM;Soumission;Origine;Référence;Attn;Objet;Caractères;SMS requis;Date transmission;Heure transmission;Erreur						
1	12/02/2003	09:42:14	706	660424801	Scrutation rép D:\SMS-Multi cvm	Dumoleyn Patrick
2	12/02/2003	09:42:14	707	680732550	Scrutation rép D:\SMS-Multi cvm	Verveer S
3						
4						

Example de Journal : RCVJournal.CSV

Microsoft Excel - RCVJournal.csv						
Date;Heure;Numéro GSM;Caractères;Modem;Identifiant;Nom						
1	Date;Heure;Numéro GSM;Caractères;Modem;Identifiant;Nom					
2	12/02/2003	09:17:31	33672774217	44	GSM1	SONY
3	12/02/2003	09:42:58	33672774217	168	GSM1	SONY
4						

Communications et VM SAS

Example de daily log

```
20021203.LOG - Bloc-notes
Fichier Edition Format Affichage ?

09:42:59 GSM1 Message d'aquittement recu :
09:42:59 GSM1 +CDS: 6,250,"+33660424801",145,"02/12/03,09:42:29+00","02/12/03,09:42:42+00",48
09:42:59 GSM1 Requête 00708 : Message transmis - 2 SMS
09:42:59 Requêtes prêtes : 1 - en cours : 3
09:42:59 Requête 00708 : Attribuée au pilote SMS GSM1
09:43:00 GSM1 Requête 00708 : Avis de non remise 250 reçu, code 48 : GSM indisponible
09:43:00 GSM1 Requête 00705 : Avis de remise 248 reçu (2/2)
09:43:00 GSM1 Message d'aquittement recu :
09:43:00 GSM1 +CDS: 6,251,"+33680732550",145,"02/12/03,09:42:38+00","02/12/03,09:42:44+00",48
09:43:00 Requête 00705 : Envoyée
09:43:00 Requête 00705 : Correctement traitée
09:43:00 GSM1 Requête 00707 : Avis de non remise 251 reçu, code 48 : GSM indisponible
09:43:00 Requêtes prêtes : 1 - en cours : 2
09:43:00 GSM1 Requête 00706 : Avis de non remise 249 reçu, code 48 : GSM indisponible
09:43:01 GSM1 Traitement de la requête 00708
09:43:01 GSM1 Requête 00708 : Envoi vers le GSM 0672774217
09:43:01 GSM1 Requête 00708 : Envoi du SMS 1/2 - 157 caractères
09:43:08 GSM1 Requête 00708 : SMS 1/2 envoyé - Id : 253
09:43:08 GSM1 Requête 00708 : Envoi du SMS 2/2 - 40 caractères
09:43:15 GSM1 Requête 00708 : SMS 2/2 envoyé - Id : 254
09:43:15 GSM1 Requête 00708 : Message transmis - 2 SMS
09:43:15 Requêtes prêtes : 0 - en cours : 3
09:43:17 GSM1 Message recu
09:43:17 GSM1 +CMTI: "SM ,1
09:43:17 GSM1 Lecture du message recu 1
09:43:18 GSM1 Message 52 reçu de +33672774217, 42 caractères
09:43:19 SMS 00708 1/2 reçu de +33672774217, attente des suivants
09:43:22 GSM1 Message d'aquittement recu :
09:43:22 GSM1 +CDS: 6,254,"+33672774217",145,"02/12/03,09:42:58+00","02/12/03,09:43:01+00",0
09:43:22 GSM1 Requête 00708 : Avis de remise 254 reçu (1/2)
09:43:29 GSM1 Message d'aquittement recu :
09:43:29 GSM1 +CDS: 2,252,"+33680732550",145,"02/12/03,09:42:41+00","02/12/03,09:43:09+00",48
09:43:29 GSM1 Requête 00707 : Avis de non remise 252 reçu, code 48 : GSM indisponible
09:43:37 GSM1 Message recu
09:43:37 GSM1 +CMTI: "SM ,1
09:43:38 GSM1 Lecture du message recu 1
09:43:39 GSM1 Message 53 reçu de +33672774217, 159 caractères
09:43:41 SMS 00708 2/2 reçu de +33672774217, message complet
09:43:41 SMS reçu de SONY (SONY)
09:43:43 GSM1 Message d'aquittement recu :
09:43:43 GSM1 +CDS: 2,253,"+33672774217",145,"02/12/03,09:42:51+00","02/12/03,09:43:23+00",48
09:43:43 GSM1 Requête 00708 : Avis de non remise 253 reçu, code 48 : GSM indisponible
09:43:49 GSM1 Message d'aquittement recu :
09:43:49 GSM1 +CDS: 6,253,"+33672774217",145,"02/12/03,09:42:51+00","02/12/03,09:43:21+00",0
09:43:49 GSM1 Requête 00708 : Avis de remise 253 reçu (2/2)
09:43:49 Requête 00708 : Envoyée
09:43:49 Requête 00708 : Correctement traitée
09:43:49 Requêtes prêtes : 0 - en cours : 2
```

Example of yield of treatment of a SMS 'Avis of putting back'

```
200212030913244.snt - Bloc-notes
Fichier Edition Format Affichage ?

Bonjour,
Ceci est un envoi de SMS multi-opérateurs via SMS-Monitor et un modem wavecom

Salutations - CVM

$SMS-MONITOR:REPORT: 02/12/03 09:42:15 00708 // Numéro unique attribué : 00708
$SMS-MONITOR:REF: 02/12/03 09:42:15 cvm // Référence : cvm
$SMS-MONITOR:SIZE: 02/12/03 09:42:15 143 // Longueur du SMS : 143
$SMS-MONITOR:SIZE: 02/12/03 09:42:15 26 // Longueur du SMS : 26
$SMS-MONITOR:NBSMS: 02/12/03 09:42:15 2 // Nombre de SMS requis : 2
$SMS-MONITOR:SCHED: 02/12/03 09:43:00 GSM1 // Attribuée au pilote SMS GSM1
$SMS-MONITOR:PROC: 02/12/03 09:43:01 GSM1 // Envoi du message par le pilote GSM1
$SMS-MONITOR:SEND: 02/12/03 09:43:01 157 // Envoi du SMS 1/2 - 157 caractères
$SMS-MONITOR:SENT: 02/12/03 09:43:08 253 // SMS 1/2 envoyé - Id : 253
$SMS-MONITOR:SEND: 02/12/03 09:43:09 40 // Envoi du SMS 2/2 - 40 caractères
$SMS-MONITOR:SENT: 02/12/03 09:43:15 254 // SMS 2/2 envoyé - Id : 254
$SMS-MONITOR:XMIT: 02/12/03 09:43:15 2 // Message transmis - 2 SMS
$SMS-MONITOR:DLVRY: 02/12/03 09:43:22 254 // Avis de remise 254 reçu (1/2)
$SMS-MONITOR:INFO: 02/12/03 09:43:43 253 // Avis de non délivrance pour l'id 253, code 48
: GSM indisponible
$SMS-MONITOR:DLVRY: 02/12/03 09:43:49 253 // Avis de remise 253 reçu (2/2)
$SMS-MONITOR:SENT: 02/12/03 09:43:49 // Envoyé
```

Communications et VM SAS

The contents of this window understands three parties :

1. the appeal of the tally,
2. the text of the SMS,
3. the yield of treatment.

**The opinion of putting back has been received thanks to the use of a GSM Wavecom modem that the characteristic technologies permit the receipt of the yields of putting back.
This is not valid to all the facilities of the dealing (non available yields with the OLITEC facilities and siemens).**

3.5. Fashion of starting

When the installation is finished, else selecting

Start | Programs| SMS-Monitor| Start-up mode

The following dialog box apparaît :

It concerns to him an application «SMS-Monitor Start Manager » that allows to how choose you SMS-Monitor will start on this microcomputer.

You can choose between the following profiles :



Manual	To rush the application, must select you Starting Programs SMS-Monitor Execution.
to the opening of the session	SMS-Monitor will be automatically executed as soon as a session will be open on this PC. It can correctly function that if the account has the local administering rights.
In service	SMS-Monitor will be automatically rushed in service fashion since the starting of Windows, same without a session is not open. Seeing below the remarks concerning this fashion of starting. This fashion not operation is not usable under 9x Windows.

After modified the choice of the fashion of starting, click on the button «Apply» to record your choice. You can after click on «Quit» so that the application finishes to him else clicks on «Run» to rush immediately the application according to the selected fashion.

Remarks on the operation in service :

The principal interest is that SMS-Monitor will start at the same time as Windows, without must open a session with a user code. It can also be fixed and started again since another stations administrator of the Network. Besides, the application remains operational when the Windows session is closed.

On the other hand, this fashion of operation the will prevent to have access to the shared resources such as the indexes or the printers.

The service is configured to start automatically with Windows. To stop it and starts again it, use the icon «Services» of the panel of configuration.

The fashion of starting of SMS-Monitor can at any time be modified in re-execute this module start SMS-Monitor manager.

The different abridgments created in the SMS group-Monitor are interface to the following chapter.

3.6. Quickstart

Upon receipt of the pack SMS-Monitor, before discovering one's head all the possibilities of the product, can very rapidly verify you the good operation of the outfit following the stopping place:

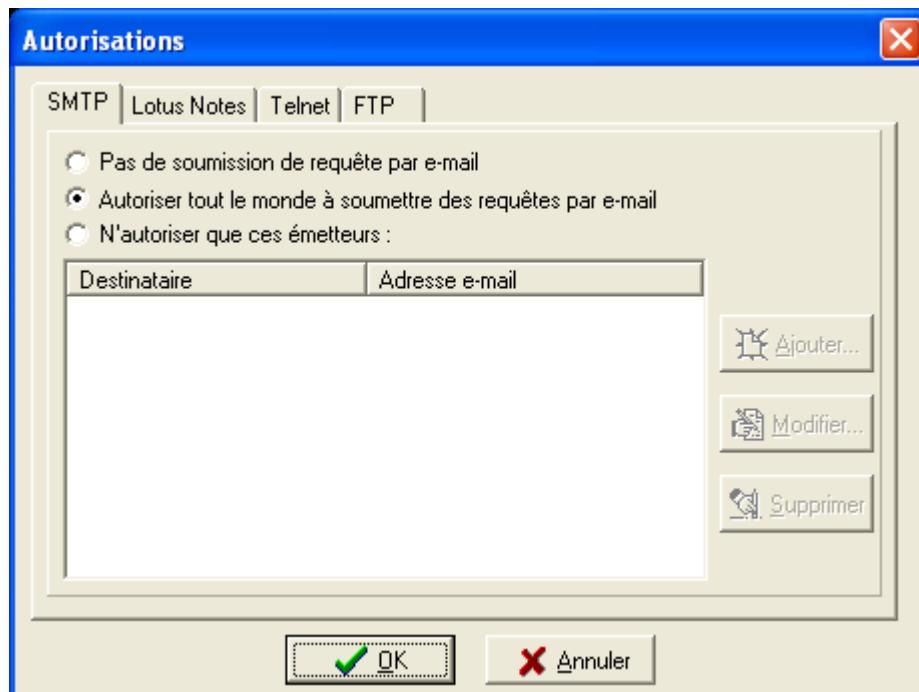
1. Unpack the equipment, insert the SIM map in the GSM modem, plug the aerial and bind the modem to the PC by the serial port (material installation, page 18).
2. Install SMS-Monitor on the PC (Software installation, page 18).
3. Start SMS-Monitor. When It is installed to the first time, SMS-Monitor can function during 7 days without key. Beyond this these 7 days, or if the boundary date of use has breathed out, the window of seizure of the parameters appears. The number of the hard disk on which is installed SMS-Monitor is displayed in the green rectangle. Dabs this case, test, call CVM to the 01.43.67.09.03, to obtain a key of use then write the (key of use, page 30) and click on OK.
4. Display the window of configuration of the GSM modems (GSM modems, page 47).
5. Click on the button «Add...».
6. The window of configuration to your GSM modem and the corresponding subscription to the SIM map appears (page 49). Write all information and click on OK.
7. Click on the button «See... » and selects «Console». A puts windows box in appears (put windows in console, page 74). It allows following in real time the executed treatments by the server.
8. Click on the button «Start» (active mode, page 73), a window adds to him under the principal window. Under the image of warped is indicated the state of the modem. It goes happen successively of «Off» to «Init», then «Pending». The time during which it remains in the state «Init» depends of the time that the operator puts to accept your SIM map.
9. Verify the level of the displayed signal in the window of the modem (page 74). It must be at least of level 10. Underneath, is the cable of the modem is badly connected, is must displace you the aerial until the signal is of a sufficient level.
10. Click on the icon «Send» to display the editor allowing you can enter the number to your GSM and a text (sending of a message, page 75). Click on the button «Send». SMS-Monitor goes then transmits the SMS towards the operator. In the some seconds that follow, must receive you the message on your GSM.
11. On your GSM, display the SMS received then select the option «Answer». Possibly, modify the text and send the answer.
12. Few seconds later, of the messages in the window «Console» you inform that a message has been received. You can consult it visualizing the contents of the C file:\SMS-Monitor\Recv\XXXX1.RCV where XXXX is the symbolic name that assigned you to your modem to the point 10.

3.7. Installation and configuration by stopping place

3.7.1. Emission of SMS by SMTP

To install and configure rapidly a Server SMS-Monitor in front of sending some SMS that are submissive by e-mail, just do the following stopping place.

- 1) Installing the equipment and the Server SMS-Monitor such as describes to the page 26 "quick start" chapter.
- 2) Open the window of settings and click on the SMTP tab. Inform the following zones the indicated explanations to the "SMTP" chapter page 42.
- 3) Open after the window of the authorizations (see page "authorizations" paragraph 58 and allow everybody to submit some SMS by e-mail (later on, can restrict you this authorization to some issuers only).



- 4) Visualize the console of SMS-Monitor, you must of it find a message you indicating that the SMTP server started:

The screenshot shows a Windows-style application window titled "SMS-Monitor - Console". The main area contains a log of system messages:

```
18:34:10 ****
18:34:10 SMS-Monitor - Copyright CVM S.A. - PARIS 2000-2004
18:34:10 Version 3.8 de Nov 26 2004 à 11:03:30
18:34:10 ****
18:34:10 Démarrage de SMS-Monitor, le 03/12/2004
18:34:10 Fichier de configuration : C:\smssmntr\Data\SMS-Monitor.cfg
18:34:10 Répertoires à scruter : 2
18:34:10 Nombre de tables à scanner : 3 (0 actives)
18:34:10 Pilotes SMS à exécuter : 1
18:34:10 Utilisateurs de GSM dans l'annuaire : 2
18:34:10 Chargement des requêtes...
18:34:10 0 requête(s) chargée(s), 0 à envoyer, 0 en cours
18:34:10 0 SMS reçu(s) chargé(s)
18:34:11 Le serveur SMTP a démarré
```

At the bottom left is a button labeled "Fermer" (Close).

- 5) You must after ask to the administrator of the SMTP carrying trade declaring a domain to the SMS that all the e-mails sent to this domain (0660424801@cvm.sms for example) are relieved towards the IP address or the name of host of the computer where functions SMS-Monitor.
- 6) Using a client of carrying trade, send now a message that the recipient is votre-numéro-de-GSM@domaine.sms and enter any text.

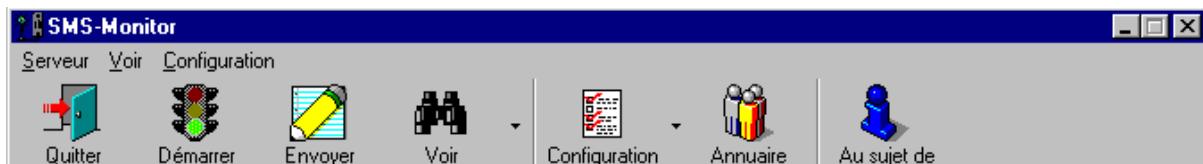
In the few dozens seconds that follow the message must arrive on your GSM by SMS and must receive you a confirmation message of sending in your mail.

4. USE SMS-MONITOR

4.1. Settings of the SMS Monitor server

All the settings of SMS-Monitor execute to him through put windows in accessible after starting the session in inactive fashion (see preceding chapter).

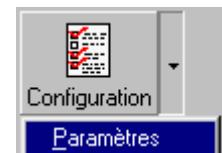
All the windows opens to him clicking on the corresponding button in the toolbars, or selecting the corresponding option in the menu bars.



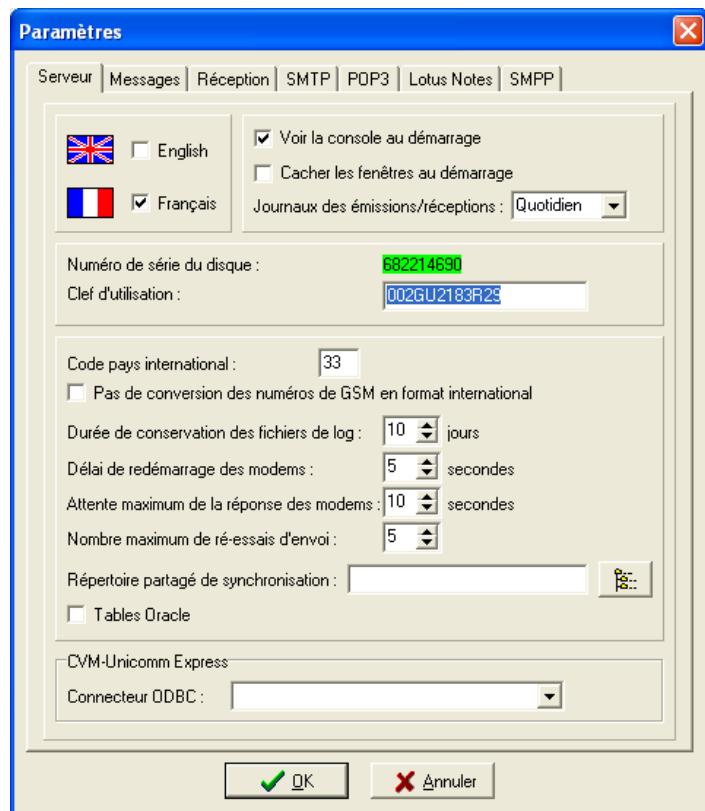
4.1.1. General Settings

Select the configuration menu settings, else click on the configuration button then select settings in the submenu.

The window that appears presents a notebook to tabs by allowing specifying changing parameters. Click on a tab to display the corresponding page to the wished parameters.



4.1.1.1. Server



Communications et VM SAS

RCS Paris B 331 758 904
SAS capital 152.449,02Euros
10 Cité Beauharnais - 75011 PARIS

SMS-Monitor

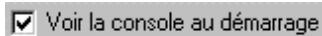
Tel : +33 (0)1 43 67 09 03
www.cvm.fr
Page 30 sur 189

4.1.1.1.1.Language



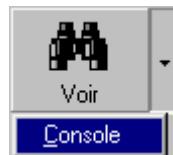
SMS-Monitor can function French or in English. If you change the language, must start again you the session so that the new language is activated.

4.1.1.1.2.Console

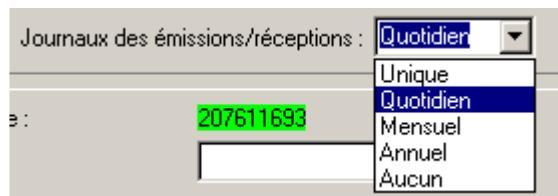


SMS-Monitor can display many messages of operation in a window of type comforts (see more far). By ticking the box this hut, the window is automatically displayed when the session start.

This window can also be displayed or concealed in selecting See | Console in the menu, else clicking in the toolbars on.



4.1.1.1.3.Journals of the treatments



To each messenger message or received, SMS-Monitor can add a registration in a journal file. The journals are created in the Journals subdirectory. That is some files to the CSV format (like Separated by commas) that are therefore directly exploitable with Ms-Excel.

The periodicity of the journals is programmed clicking on the list of choice (aaaa is the year, mm the month and jj the day) :

Type	Journals of the messages broadcasted	Journals of the abandoned messages	Journals of the SMS received
Sole	SNTJournal.CSV	ERRJournal.CSV	RCVJournal.CSV
Daily	SNTaaaammjj.CSV	ERRaaaammjj.CSV	RCVaaaammjj.CSV
Monthly magazine	SNTaaaamm.CSV	ERRaaaamm.CSV	RCVaaaamm.CSV
Annual	SNTaaaa.CSV	ERRaaaa.CSV	RCVaaaa.CSV
Any	A journal file	A journal file	A journal file

The contents of the journals are interface to the restrained chapter of the page 179 journals.

4.1.1.1.4.Key of use

Numéro de série du disque :	1061230295
Clef d'utilisation :	007WG30025WU

Like It has been indicated more high, SMS-Monitor requires a software key to function. This key indicates to the server on what hard disk it can function, gives a dates boundary of use or indicates that the use is unlimited. It precise also how SMS-Monitor can manage of radio modems. The well stocked key by CVM must be entered in this page.

It composes to him of figures, of letters exclusively in capital letter (except the O in command to avoid all risk of confusion with the nought), and signs (\$, £,...).

4.1.1.1.5.International country code

Code pays international :

This parameter allows to it specify telephonic code of the international country code where functions SMS-Monitor. To the France, this code is 33.

4.1.1.1.6.Conversion of the numbers in international format

Pas de conversion des numéros de GSM en format international

When SMS-Monitor submits a SMS to the operator having provided the SIM map inserted in the GSM modem, it transmits the number of the recipient in international format normalized, including to the recipients in France.

The Orange Caraïbe operator does not accept this format. It expects the number of the recipient in national format.

In consequence, if the SIM map is well stocked by this operator, it must check this box.

4.1.1.1.7.Delay of resurgence of the modems

Délai de redémarrage des GSM (secondes) :

In case of anomaly in the management of a modem, or when momentarily the GSM signal becomes too feeble, SMS-Monitor tempts automatically setting the modem. This capture area allows modifying the idle time in seconds before this initialisation.

4.1.1.1.8.Conserving of the logs

Durée de conservation des fichiers de log : jours

All the messages displayed in the window comfort are also stocked in of the files of |log|. Those here finds to him in the Logs subdirectory of the index of installation. They name to him aaaammjj.Log, for example 20000420.Log.

To avoid saturating the disk space, SMS-Monitor eliminates automatically these files when they are more ancient than the number of indicated days. The suppression of these files is executed at midnight or at the time of the first execution of the day.

Indicating 0 to this value annuls the automatic suppression of the logs.

4.1.1.1.9.Delay of resurgence of the modems

Délai de redémarrage des modems : secondes

After a detection of dysfunction of a modem, SMS-Monitor resets it automatically. This option allows specifying a rotational delay time before this initialization.

4.1.1.1.10. Maximum wait of answer of the modems

Attente maximum de la réponse des modems : secondes

When it sends a command to a modem, SMS-Monitor expects to have an answer. This one can be dependent of the speed that the SMS server-C of the operator answers. In case of important load of this one, this delay can become important.

It must then increase this maximum idle time in command to avoid that SMS-Monitor does not detect to wrong a dysfunction of the modem.

4.1.1.1.11. Index of synchronization

Répertoire partagé de synchronisation : 

When several SMS-Monitor function in parallel in a same LAN, and that they are configured to can send some SMS by detection of messages in a POP3 mail boxes, a base Lotus Notes, a divided index or a database, It fails avoid that a same message can be extracted and treated by more of a server. To that, it suffices sharing a same index between the SMS servers-Monitor. Indeed, as soon as such index is declared, the servers use a system of booking / release of the index allowing synchronizing the access to the POP3 mail boxes or to the lower part note.

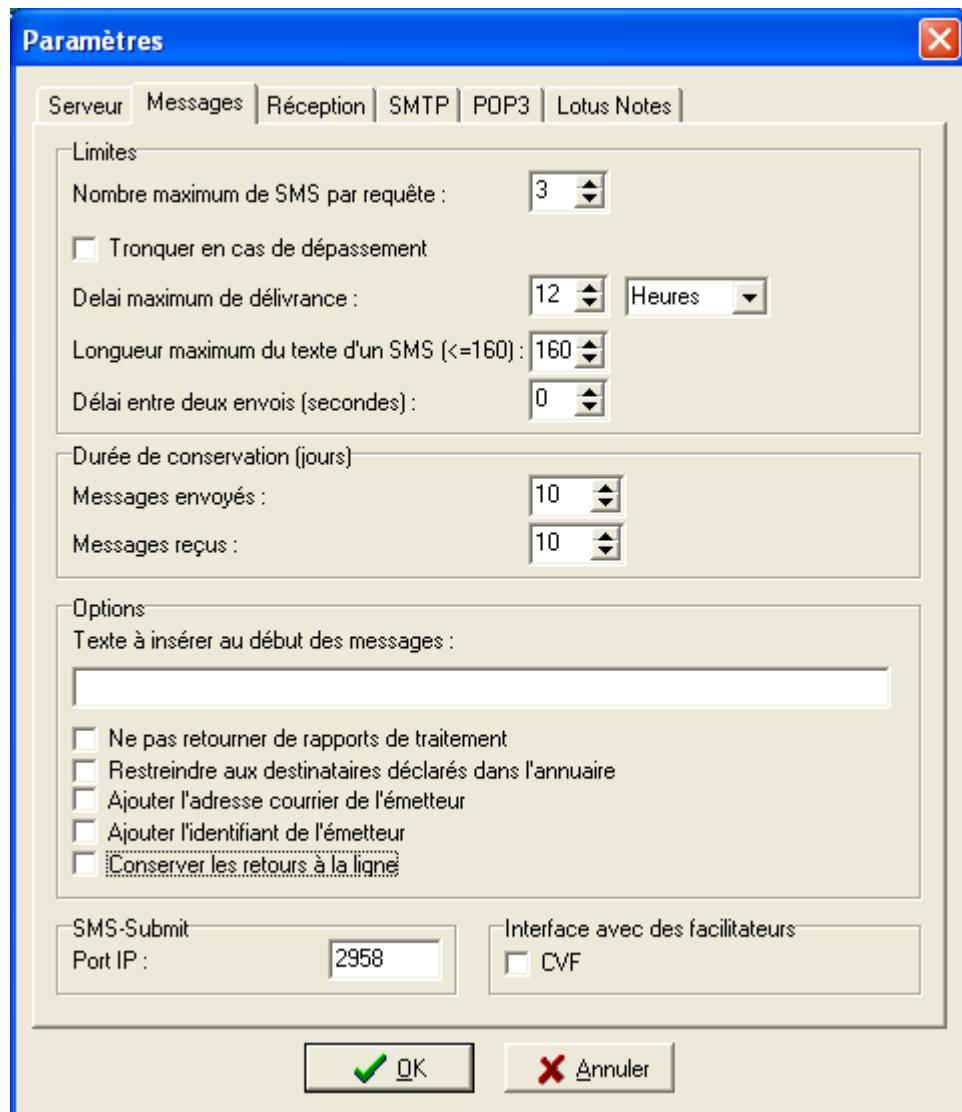
The button on the right of the capture area opens a navigator by allowing selecting this index.

4.1.1.1.12. CVM-Unicomm express

When SMS-Monitor is used to send some SMS since the CVM-Unicomm applications express or SMS-Monitor Express, It fails select in this zone the ODBC connector by pointing on the CVMUNI or CVMSMS lower part.

CVM-Unicomm Express
Connecteur ODBC :

4.1.1.2. Messages



4.1.1.2.1. Maximum number of SMS

Nombre maximum de SMS par requête : When a request of sending is submissive to emission, if the text is too long, SMS-Monitor cuts it and the sequence automatically in as much SMS that necessary. Of course, that means that an only message can cost several time the cost of a SMS.

This option allows limiting the number of SMS, and therefore the cutting of the messages that SMS-Monitor will accept sending.

If the number of SMS necessary to the sending of the message is upper to the boundary indicated here, the request will be rejected, except if the check box is located just below.

4.1.1.2.2. Truncating in case of surpassing

Tronquer en cas de dépassement

By default, SMS-Monitor rejects all request that requires a number of SMS upper to the indicated boundary to the above.

When this check box, SMS-Monitor accepts the request, but not sends that the SMS maximum authorized number.

4.1.1.2.3.Delay of deliverance

Délai maximum de délivrance : Minutes

When a SMS is submissive to the operator, it is possible to indicate how long this one is valid. If the operator has not made a success of to transmit this SMS in the granted time, it must eliminate it and inform SMS-Monitor of this abandonment.

The request will happen then in state «error» (see yield of treatment, page 119).

This functionality will be particularly useful with of the messages of type «alert». For example, if the person to alert did not could be prejudiced at the end of 5 minutes, the application informed by the passage to the state «error» of the request. It can then tempt sending the alarm to another person.

The different delays can be specified are :

- Of 5 to 1440 minutes. Between 5 and 720 minutes (12 hours), the entered value is approximate to the multiple of 5 head of a convent. Beyond, the value is approximate to the multiple of 30 head of a convent.
- Of 1 at 24 o'clock.
- Of 1 to 30 days.

Specifying 0 like limits, what that is the selected unity, there will be no of limit indicated to the operator. In this case, the maximum time before it not abandons the sending depends of this last.

The value indicated here is the default. It is possible, using the files API (see 7.1 files, page 117 API) specifying a different boundary to the message to broadcast. Seeing the MAXMINUTES key words, MAXHOURS and MAXDAYS of the files API.

4.1.1.2.4.Maximum length of the text

Longueur maximum du texte d'un SMS (<=160) :

When a message to send to a GSM contains more of 160 characters, SMS-Monitor cuts it in as much SMS that necessary. The separation between the SMS is executed on a border of words. Like this, it can happen that a SMS contains very exactly 160 characters.

Some applications generate of the messages towards the GSM of collaborators that must answer to the message adding a statute book by indicating for example, that they accept the mission.

In case, the telephone permits often answering taking the text of the message and inserting this statute book. That is not possible that if the message is compound of less than 160 characters. This option allows limiting the length of the SMS that will be created.

4.1.1.2.5.Conserving of the messages

Durée de conservation (jours)
Messages envoyés :
Messages reçus :

The messages broadcasted and received are kept by the server. That allows constituting a historical record. It concerns to him of all the information

relative to the contents of the message, of his issuing, recipient, of the executed treatments.

These two values indicate during how many days the treated messages are kept.

When many messages are exchanged each day, that can drive to an important litter of the disk space and to the slowing up of the tasks of the server.

The suppression of these files is executed at midnight, or at the time of the first execution of the day. Indicating 0 to these values prevents the automatic suppression of the corresponding messages (broadcasted and/or received).

4.1.1.2.6.Options



Text to insert in the beginning of message

All text before here will be automatically added by SMS-Monitor in the beginning of all the sent messages.

Not return of yields of treatment

When this check box, any yield of treatment did not return to the issuers of the requests of sending. That concerns the submissions by SMTP carrying trade and Lotus Notes and by FTP.

This option is particularly intended to the facilities where SMS-Monitor is used to send some SMS submitted by of the application via a client of carrying trade.

Restricting to the found recipients in the annual

SMS-Monitor has an integrated annual allowing memorizing the GSM numbers of the recipients (see the page 71 annual chapters). When this check box, only of the SMS destined to a restrained recipient in this annual can be sent. All requests towards of the numbers of GSM unknown will be rejected.

Adding the mail address of the issuer

When the request of sending of a SMS has been sent by means of a client of carrying trade (SMTP or Lotus Notes) and that this check box, SMS-Monitor adds automatically in the beginning of the text of the SMS the address of carrying trade of the issuer. Like this, if the recipient of the SMS answers taking this address in the text and that the hut "send to the found recipients in the message" is checked (see chapter follow), the answer will be automatically send away to this address.

Adding the identifying of the issuer

This option is identical to the preceding, except that, instead of sending the e-mail address of the issuer, this is identifying numerical sole that is sent in the beginning of the message under the #nn# form. When the recipient of the SMS desire answer, just start his message by #nn# in command to identify the recipient of the SMS. It's possible to specify several ID in a same message. In this case, it fails separate them of a space (for example: #23# #2# #345#). The IDs are sought after in the 10 first words of the SMS only.

That is SMS-Monitor that grants dynamically the identifying in hence 1 as the users submit of the requests of sending by carrying trade. The list of the IDs allocated memorized in the file SMS-Monitor\Date\SMS-Monitor.ids.

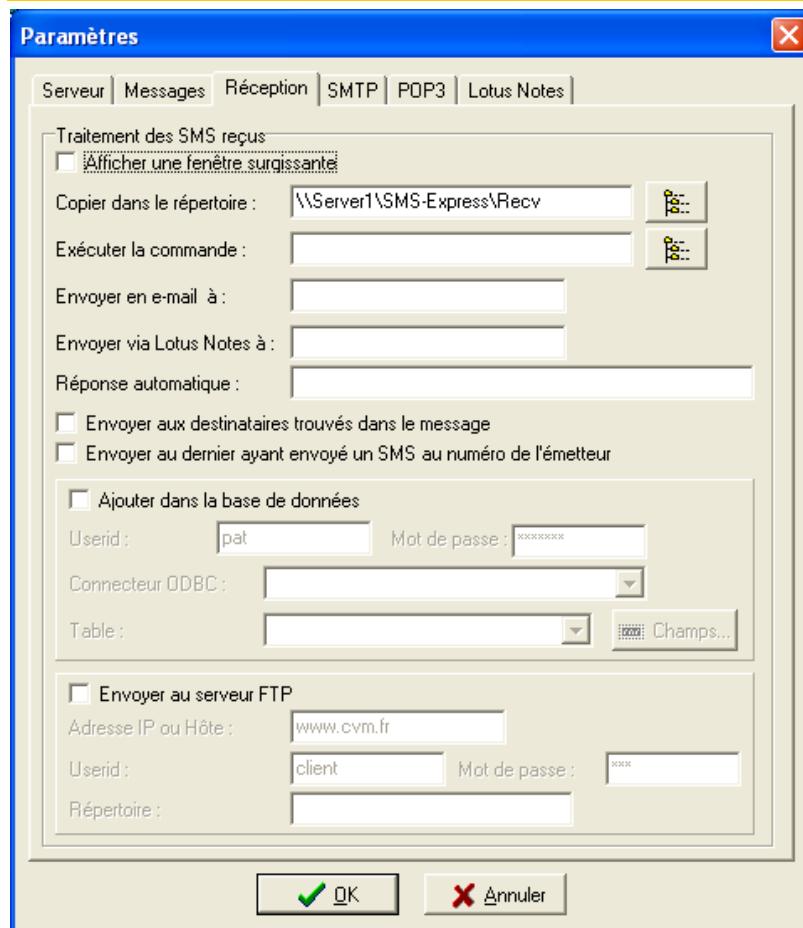
As soon as this check box, the search of ID in the SMS received is automatically activated.

This method is the more convenient to the sorting and routing of the SMS received bus it facilitates the seizure of the recipients via the keyboard of the GSM.

Keeping the turns to the line

By default, SMS-Monitor replaces the turns to the line by of the spaces. This option allows keeping them, this that results in the display of several lines on the screens of the GSM recipients.

4.1.1.3. Receipt



This page allows to them configure treatments by default of the SMS receipts of the portable thing. The different options are cumulative and are executed in the following command:

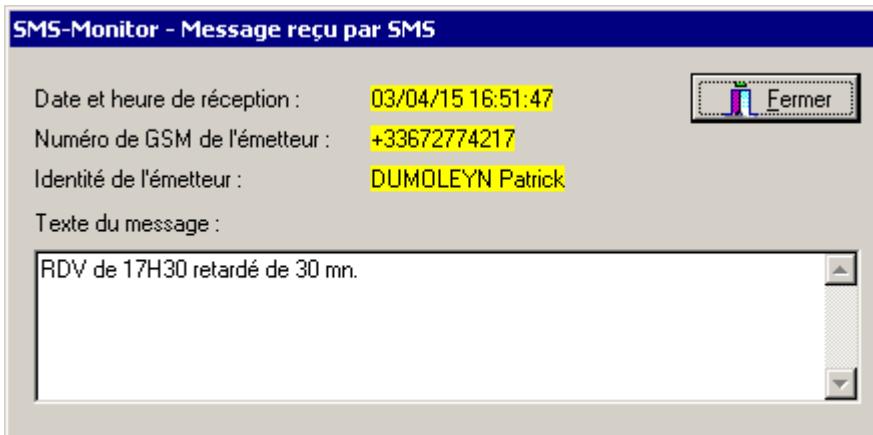
- Display of a puts windows in surgissante,
- recopies in an index,
- sending by e-mail,
- sending to a FTP server,
- execution of an command,
- automatic sorting and routing towards an user,
- save in a database.

The format of the files containing the SMS receipts of the GSM are interface to the chapter 7.1 files, page 117 API.

4.1.1.3.1. Display of a puts windows in surgissante

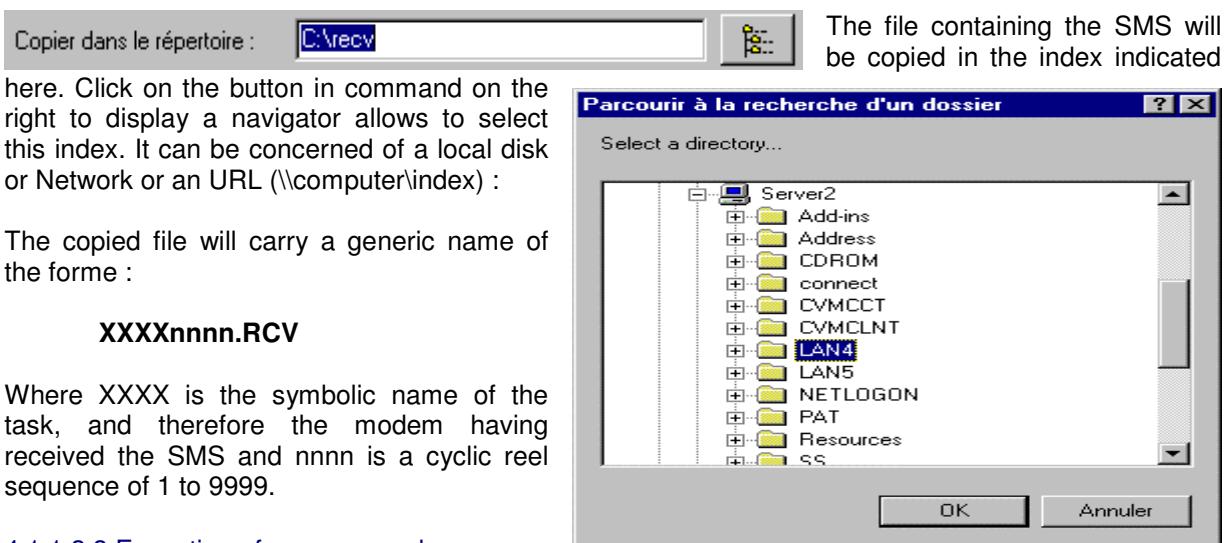
Afficher une fenêtre surgissante

When this check box, every time a new SMS is received, a windows in surgissante is displayed on the PC :

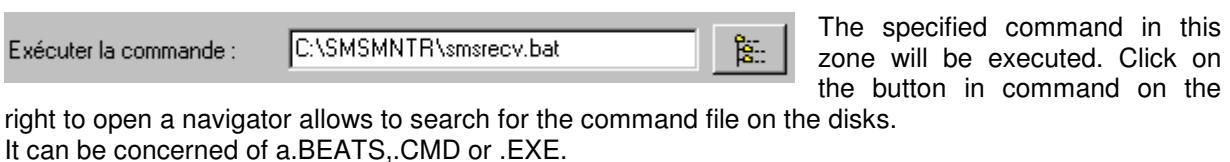


This window displays the contents of the SMS received, the date and the hour of receipt as well as the number of GSM besides, if the number has been declared in the internal annual of SMS-Monitor, the corresponding name is indicated.

4.1.1.3.2. Copy in an index



4.1.1.3.3. Execution of an command



When it's executed by SMS-Monitor, this command receives like sole parameter the complete name (enclosing the disk and the index) of the file by containing the SMS received. It concerns to him by way of the generic name indicated to the 4.1.1.3.1 paragraph and the under Recv index of the index of installation. The format of the file is interface to the chapter 0.

It is registered not of eliminate this file. SMS-Monitor is in will charge automatically when It became obsolete (see the corresponding chapter).

The execution of this command is synchronous, it must not therefore block too long the task of treatment of the SMS received (another task executes the receipts of making dissociated).

In case of normal operation, the command must give a codes turn to 0. To a procedure.BAT, it must therefore finish by :

EXIT 0

4.1.1.3.4.Sending in e-mail

Envoyer en e-mail à :

When a SMTP address is informed in this zone, the recipient receives a message by containing the SMS received. The object of the message is «SMS receipt of xxxxxxxx the aa/mm/jj to |hh|:mm :ss».

To can write an address in this zone, it is necessary to have beforehand informed the name or the IP address of a SMTP server in the following configuration page.

4.1.1.3.5.Sending to a lotus recipient note

Envoyer via Lotus Notes à :

When SMS-Monitor is interfaced with Lotus Notes (see the lotus chapter note page 45), this zone allows to it write address note of the recipient of the SMS. If the interface note has been configured, this zone is intoxicated and inaccessible.

4.1.1.3.6.Sending to the found recipients in the message

Envoyer aux destinataires trouvés dans le message

When this option is checked, SMS-search Monitor of possible addresses of carrying trade in the body of the text of the received message. It tempts then sending the SMS to each found address.

The address can be like this detected must have the syntax follow :

nom@domaine

In the case where SMS-Monitor detects an address that not tallies to a well known user of the carrying trade, the SMS is sent to the declared recipient under the tab follow, in the zone «in case of error».

4.1.1.3.7.Sending to the issuing last

Envoyer au dernier ayant envoyé un SMS au numéro de l'émetteur

When SMS-Monitor receives the SMS, It has the GSM number of the issuer. When this check box, It searches for in that, in last, sent a message to this number via SMS-Monitor. When it concerns to him of an user of SMTP carrying trade or Lotus Notes, the SMS s is automatically addressed.

4.1.1.3.8.Automatic answering

Réponse automatique :

When a text of any length is entered in this zone, SMS-Monitor sends away automatically a SMS the container to each issuer of SMS received by the server.

Warning also not of send to him a SMS with SMS-Monitor, otherwise that goes produce a buckle of receiving / sending of SMS.

4.1.1.3.9.Addition in a database

<input checked="" type="checkbox"/> Ajouter dans la base de données	
Userid : pat	Mot de passe :
Base : CVM	
Table : RecvSMS	Champs...

ODBC connector can be used : SQL Server, oracle, Sybase, MySQL, etc.

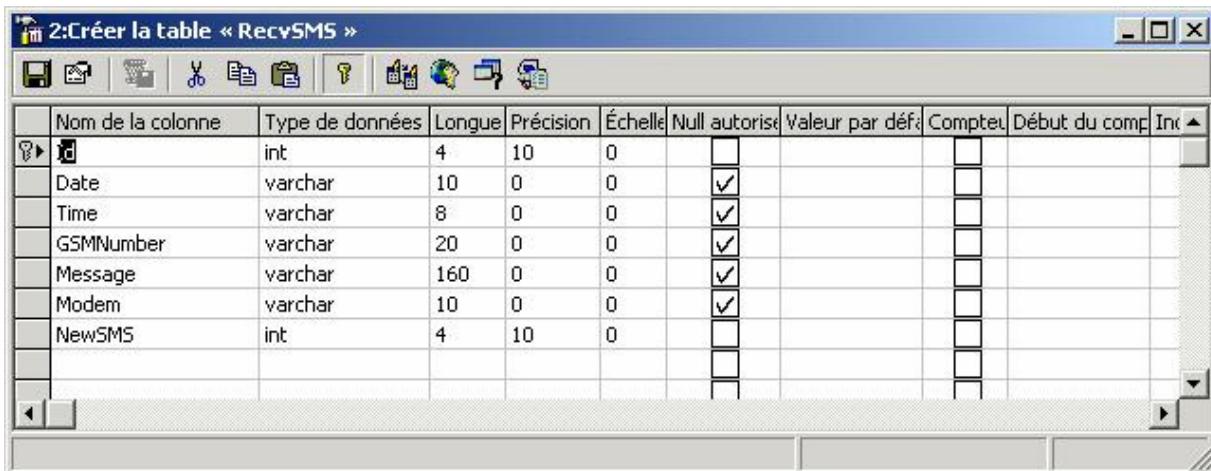
All the SMS received can be stocked in a database. The communication with this one executing in ODBC, all base type of datas having an

Check box «Add in the data lower part», the corresponding capture areas his unbolted. The table that will be used must be created before can settings it.

This table must contain the following fields (the name of the fields is free) :

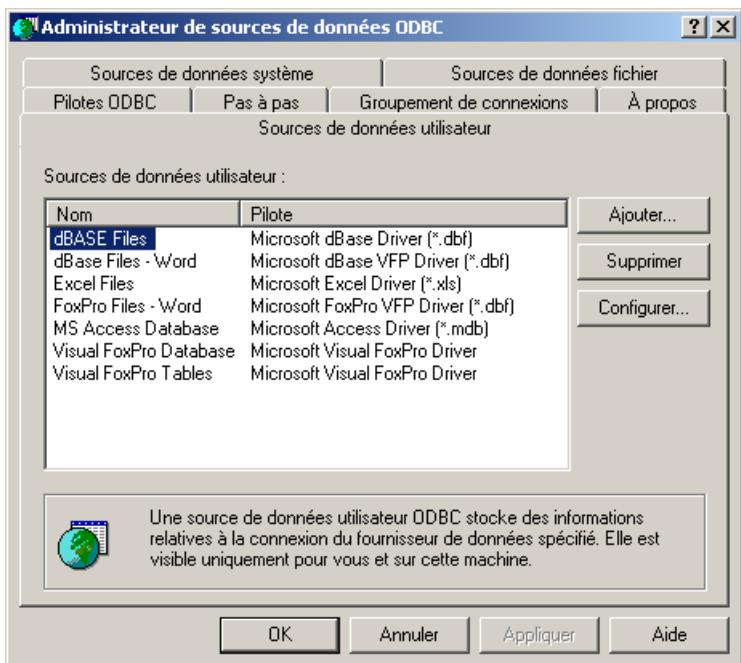
Field	Type	Long max
Identifying sole assigned by SMS-Monitor to the new SMS. This field must be declared as primary key.	Int	
Flag initialized by SMS-Monitor to 1 when a new SMS is created in the lower part. It's to the application that the stretches handing it to 0 or eliminate the registration.	Int	
Date of receipt of the SMS under the form AA/MM/JJ	Varchar	8
Hour of receipt of the SMS under the form HH:MM:SS	Varchar	8
Number of GSM of the issuer.	Varchar	20
Text of the SMS.	Varchar	160
Symbolic name of the modem having received the SMS	Varchar	8

Example of definition in SQL Server :

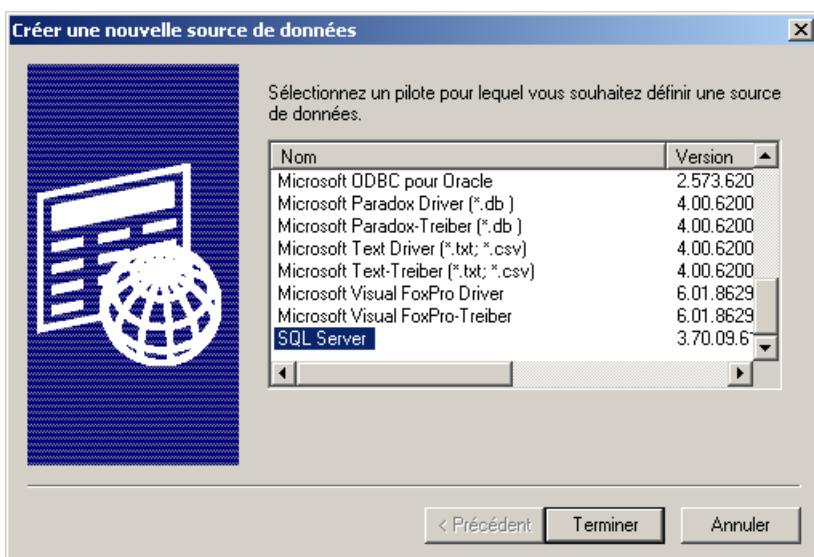


After created the lower part, you must, if necessary, install the ODBC connector tally to the used database.

You must after declare this lower part. To that, select Start - Settings - Panel and click-double on the icon «Tools of administration» and finally «Sources of datas (ODBC)».



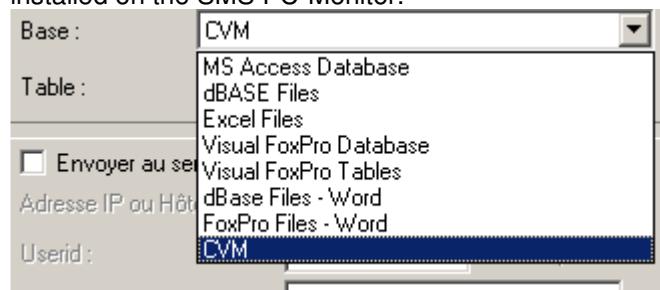
Use the button «Add», then select the type of ODBC connector to use :



Inform after the different zones of configuration that depends of the used database.
Once the declared lower part, return in the SMS configuration-Monitor.

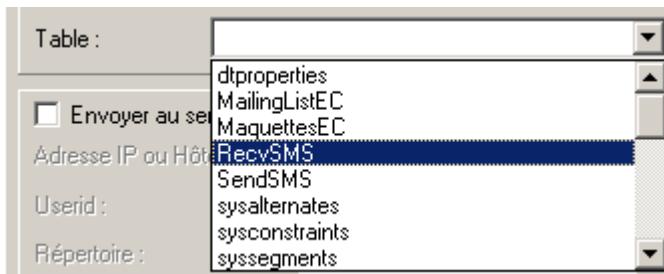
Begin by seizing the user code and the password to provide to can have access to the lower part.

Clicking on the triangle on the right the zone bases, a list displays the outfit of the ODBC connectors installed on the SMS PC-Monitor.

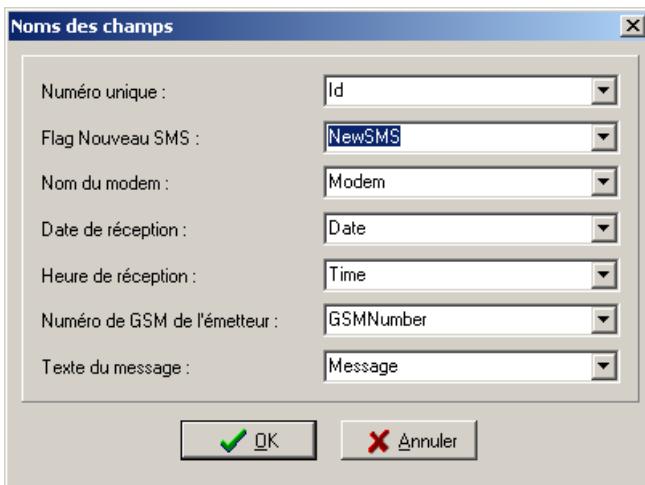


Communications et VM SAS

Select the one that you occur creating. Click after on the triangle on the right of the zone counts. A list displays the existing tables in this lower part. Select the table that created you to the SMS received.



A window opens automatically :

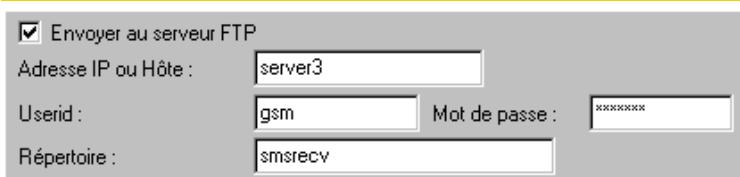


It allows to you specify the names of the fields that created you in the table. To each, a click on the triangle on the right allows to select the corresponding field among those existing.

Thereafter, can again have access you to this window of settings clicking on the button.



4.1.1.3.10.Sending to a FTP server



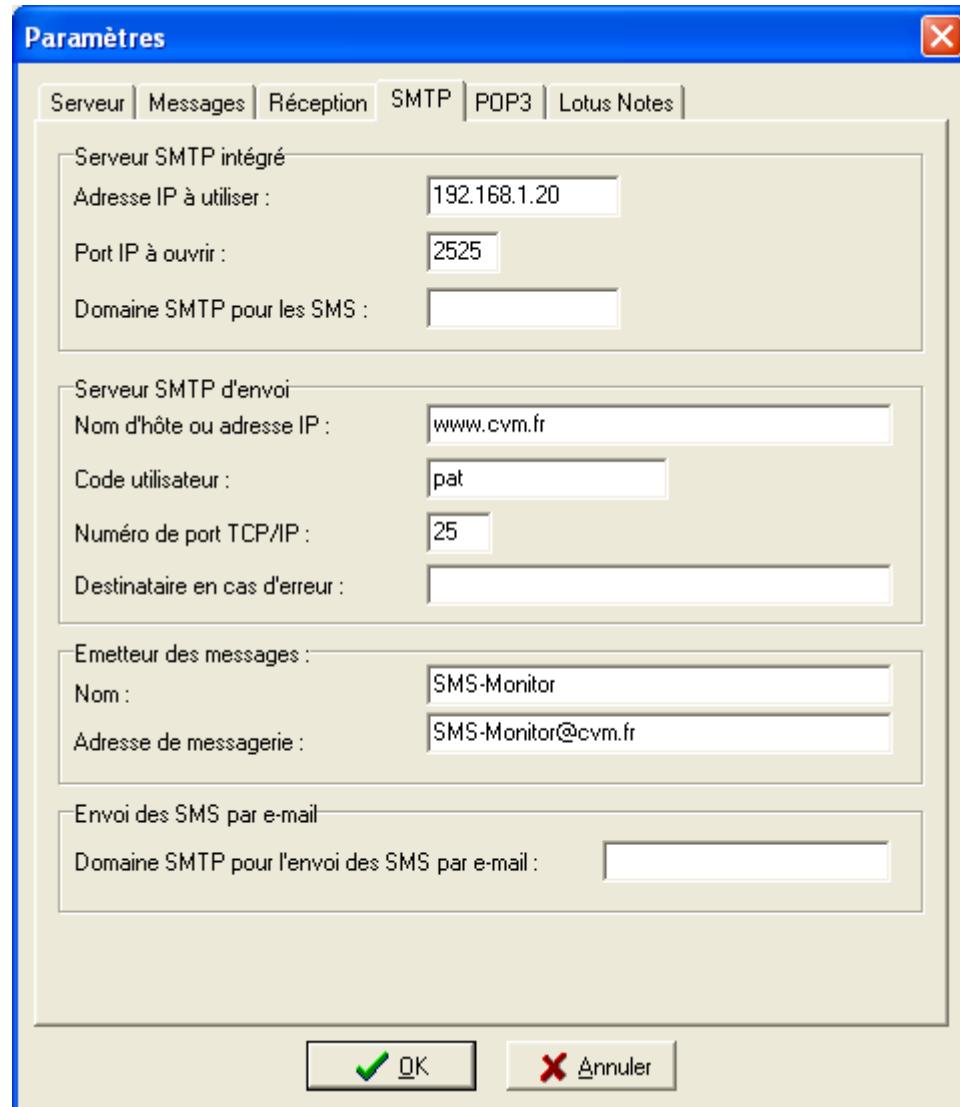
By ticking the box, the "Send to the FTP server", the text input corresponding become active and allow to write the information concerning the FTP server that will receive the SMS received. Only the name of host or the IP address of the server is obligatory.

If any user code is not specified, SMS-Monitor uses the "anonymous" name like user code and password.

If any index is not indicated, the SMS will be copied in the index by default assigned to the used FTP user.

4.1.1.4. SMTP

This page allows defining the operation of the SMTP server integrated in SMS-Monitor, as well as the features of the SMTP server that will be used to send some e-mails towards the users.



4.1.1.4.1. SMTP server integrated



When SMS-Monitor is configured to accept some requests of sending of SMS by e-mail (see rebukes in chapter authorizations, page 53), a SMTP server integrated to SMS-Monitor is started. That is shone that will receive the sent e-mails by the users to the SMTP domain created to this effect and associated to the IP address of the SMS -Monitor server. The like this received e-mails are true and transformed in

request of sending of message by SMS. The object and the text of the e-mail are used to generate the text of the message.

By default, the SMTP server «Listen» all the address IP declared on the PC.

When SMS-Monitor must cohabit with another server SMTP, It suffices declaring two IP addresses, if necessary on the same Network map and write in the zone «IP Address to use» the IP address that must listen the SMTP server of SMS-Monitor. It won't tempt opening the other addresses. Just set the other SMTP server so that it uses solely the other address.

The IP port zone to open allows to answer to the particular needs where the used port to connect to him to the SMTP server is not the standard port 25.

When the zone «Domain SMTP to the SMS» is informed and that a SMTP server is declared rightly in command underneath to the sending of the e-mails, if SMS-Monitor receives an e-mail that the domain of the recipient is not the one indicated, it send away then the message towards the SMTP server. It serves then of SMTP server relay.

4.1.1.4.2.SMTP server of sending

The dialog box has a title 'Serveur SMTP d'envoi'. It contains four input fields:

- Nom d'hôte ou adresse IP :
- Code utilisateur :
- Numéro de port TCP/IP :
- Destinataire en cas d'erreur :

When SMS-Monitor must return a yield of treatment to an user having submitted a request of sending by SMTP, when It must send by SMTP a SMS receipt of a GSM, or when It must send an e-mail of alarm, It must can have access to a SMTP server.

These zones allow to indicate the name of host or the IP address of the server as well as a name of well known user of the server (some servers do not solicit this last inquiry, in this case lets her/it to white).

As a general rule, the user code can also be replaced by an address of carrying trade belonging to a well known user of the SMTP server.

The zone «Number of TCP/IP port » allows to answer to the particular needs where the used port to connect to him to the SMTP server is not the standard port 25.

The zone «Recipient in case of error» allows indicating an addresses e-mail towards which will be sent the SMS received contain an addresses incorrect e-mail.

4.1.1.4.3.Issuer of the messages

The dialog box has a title 'Emetteur des messages :'. It contains three input fields:

- Nom :
- Adresse de messagerie :

These capture areas allow to bring the name and the address of carrying trade that you wish that SMS-Monitor uses when it must send a message to an user. That is these values that the recipient of the message will see in the definition of the issuer of the message.

IMPORTANT: Most SMTP servers are configured to don't accept some messages that to the or the domains that they manage. As a general rule, it is worth therefore better use the domain of carrying trade of the enterprise.

4.1.1.4.4. Sending of the SMS by e-mail



Some facilitators propose a very simple interface to their transmit the SMS to dispatch. It suffices by way of their send an e-mail indicating like address of destination:

Numéro_GSM@domaine_messagerie

With this method, SMS-Monitor can treat sends the SMS without GSM modem.

To implement, it fails declare the SMTP server of sending (see above) as well as the issuer of the messages (see above) allowed by the facilitator to submit some SMS.

It suffices after indicating in the zone «Dome SMTP to the sending of the SMS by e-mail» the name of the domain of communicated carrying trade by the facilitator without @.

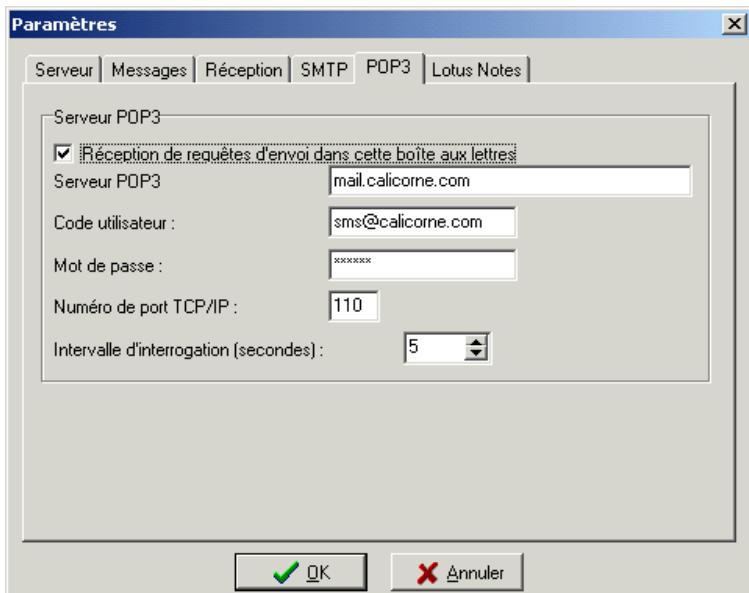
4.1.1.5. POP3

Like It has been indicated page 53, SMS-Monitor can integrate a SMTP server to receive the requests of sending of SMS messages by e-mail.

The principal advantage is, that with this method, It suffices sending an one-address e-mail of the Numéro-GSM@domaine-SMS-Monitor form to can send some messages by SMS.

On the other hand, that requires of the specific definitions in of the servers of carrying trade such as Lotus Notes (see the chapter «Configuration of the DOMINO server» page 140) or MS-Exchange (see the chapter «SMS-Monitor and MS-Exchange», 156 page) and, in general, of the definitions to add in a DNS server.

A second method, much more easy to implement, permits also the sending of SMS messages by e-mail. It suffices creating a new counts carrying trade to the Server SMS-Monitor and send to his address the e-mails to send by SMS.



To activate this function, you must check the box next «Reception of the requests of sending in this mailbox». That will activate the capture areas underneath. You must provide the following information :

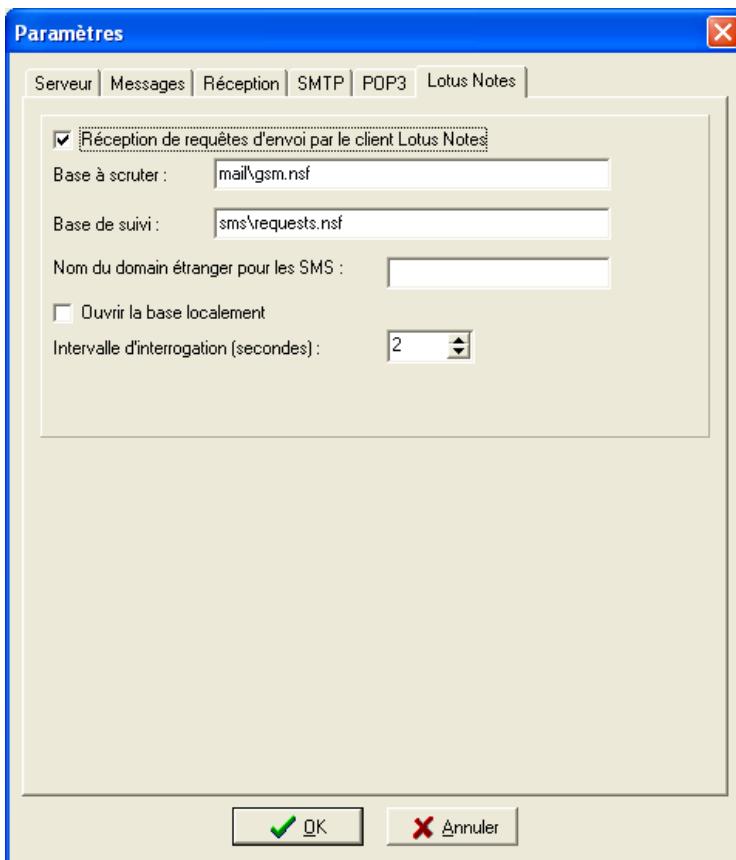
POP3 server	IP address or name of host of the POP3 server that manages the account of carrying trade towards which the users send the messages to address by SMS.
--------------------	---

User code	An authorized user code allowing to have access to the mail boxes.
Password	Password to provide to can have access to the mail boxes.
Number of TCP/IP port	Allows to answer to the particular needs where the used port to connect to him to the POP3 server is not the standard port 110.
Interval of interrogation	Specifies the interval in seconds between two interrogations of the mail boxes. A each time that It connects to the server, SMS-Monitor extracts all the waiting messages and the eliminates.

Turn you to the chapter «Submission since a client of messenger» page 166 that explains how indicate the GSM numbers of the recipients.

WARNING : You must imperatively also configure the SMTP server of emission (see preceding paragraph) so that SMS-Monitor can send away the yields of treatment. Otherwise, the task of extraction of the messages by POP3 does not start.

4.1.1.6. Lotus Notes



At the time of the coupling of SMS-Monitor with the system of Lotus Notes/Domino carrying trade, a first making to proceed is using SMTP so that the Lotus server sends and receives the SMS requests. In this case, use the parameters of the SMTP tab interface here-before.

It's also possible to send the requests of sending of SMS towards a lotus user note, and, therefore, in this case, the document is copied by sorts and route it note in the mail lower part of the user.

This technology avoids to must create a foreign domain to the SMS.

The disadvantage is that the GSM number of the recipient is not in the address of destination of the message. In this case, it will be necessary indicating it in the text of the message following the interface syntax to the chapter describing the use via Lotus Notes.

In this case, check the box «Reception of the requests of sending by the Lotus Notes client». Of course, the client Lotus Notes tally must be installed and configured on the computer where SMS-Monitor functions. If the mail lower part to use is not the one of the client Lotus Notes installed on the computer, can specify you another.

If the lower part is retorted locally, you can check the corresponding hut in command to avoid opening this lower part the server note.

Finally, you can adapt to your needs the interval between two interrogations of the lower part.

The third way to proceed is creating an external domain notes (no SMTP) to the sending of the SMS. This technology is very similar to the use of a SMTP domain, but present the advantage can define a name of SMS domain without the dawned obligatory to a name of SMTP domain. It also avoids you of must it open SMTP server integrated to SMS-Monitor.

This technology requires also the installation and the configuration of a client Lotus Notes on the SMS computer-Monitor.

Check the box the case «Reception of the requests of sending by the Lotus Notes client».

The «Base à interroger» will be the one associated to the foreign domain SMS.

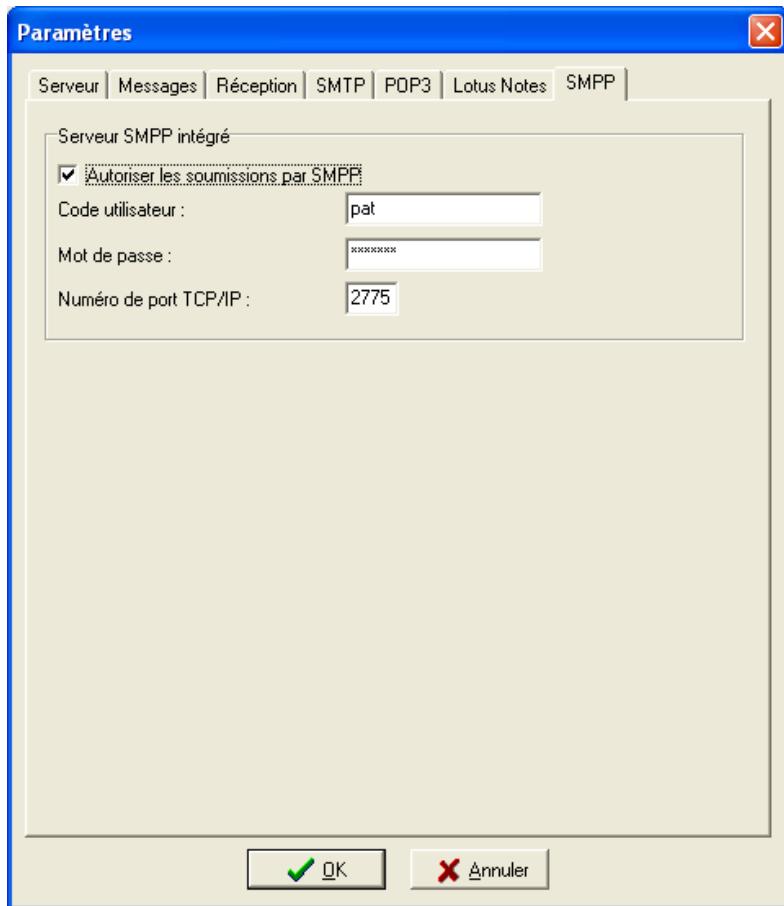
The «Domain name abroad» will be the selected name at the time of the definition of the foreign domain.

Turn you to the chapter 8.5 configurations of the DOMINO server page 140 to the declaration of the foreign domains or SMTP SMS.

VERY IMPORTANT : in any case, the client note used must them have straight "administrator" more the authorization eliminating some documents on the lower part used to the SMS sendings.

Besides, can create you a lower part of follow-up of the sendings of the SMS, some is the fashion of submission of those-here. This lower part must be created from the installed model with SMS-Monitor (see the chapter «Creation of the lower part of follow-up of the SMS» page 146). The assigned name to this lower part, when it exists, must be informed in this window.

4.1.1.7. SMPP



The SMPP protocol is used to submit some requests of sending of SMS towards a SMS server-C of a GSM operator. It permits also receiving .

Check box « Autoriser the submissions by SMPP », we active the SMPP server enclosed in SMS-Monitor. It is exclusively used to transmit some requests of sending of SMS to SMS-Monitor. It not permits transmitting of the SMS received.

The utilisateur et statute book the password must be those that are configured in the SMPP client software that goes transmit the SMS to send. They are controlled and the submission is refused in case of error. They are insensitive to the breaking.

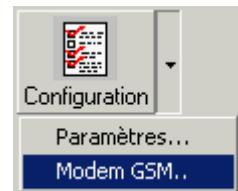
The port by default is the IP port standard reserved to this protocol. It can be modified to of the particular needs.

4.1.2. GSM modems

To can define the GSM modems, it is necessary that the Server SMS-Monitor is in inactive fashion. That is-to-say that it is necessary that it is started in this fashion, else that his activity is repaired by invisible mending.

Select the configuration menu| GSM modems, or click on the Configuration button then select modems in the submenu.

Under operation, the option of the menu and the button are disactivated.



Communications et VM SAS

The window that appears present the list of the pilot SMS already configured or an empty list at the time of the first settings.

When the modem is activated, (see 4.1.2.1) a red check box appears on the left of the serial port.

at any time, can click on you the button add... to declare a new radio modem. To modify the definition of a modem exist, double click on his name or select it clicking on his name then click on the button modify... that is then activated.

To eliminate a declared modem, select it clicking on his name then click on the button eliminate... that is then activated. SMS-Monitor you will ask confirming this suppression.

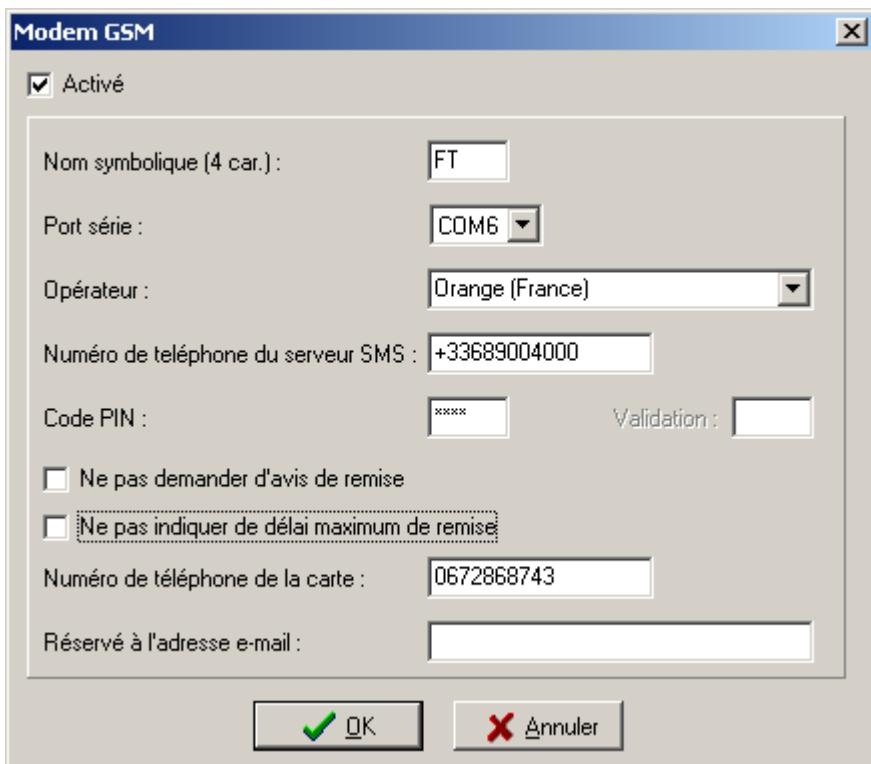
All the modifications brought on the declaration of the radio modems are not effective that after validated them clicking on the Ok. button

If you desire abandon all the modifications, click on the button annul. SMS-Monitor you will ask confirming this abandonment.

The buttons add and modify provoke the display of the ci-dessous window:

You must inform all the zones, but the two last that are optional.





4.1.2.1. Activated

Activé

A SMS pilot can be declared but temporarily disactivated, for example, in case of temporary inalienability of the GSM operator.

The act shootting this hut does not eliminate the definition of the modem but avoids that the task the manager does not start at the time of the activation of the server (active fashion).

4.1.2.2. Symbolic name

Nom symbolique (4 car.) : **GSM1** to each pilot SMS, is associated a symbolic name of 4 characters exactly.

The window displaying the state of the pilot (modem) recalls this name in his title bar. In the same way, all the messages of operation produced by the task managing this pilot that appears in the window comforts and that are stocked in the files of |logs| are prefixed of this name.

4.1.2.3. Serial port

Port série : **COM1** This box of choice allows to it select serial port in which is bound the radio modem.

Clicking on the right - hand triangle, SMS-Monitor present the list of the available ports, that is-to-say presents physically on the machine and no still assigned to another pilot SMS activated.

Several pilots can be declared on the same serial port provided that an only is activated. That permits, for example, testing several GSM operators with the same modem, simply changing the SIM map (see 3.3.2).

4.1.2.4. Operator

Opérateur : This box of choice allows to indicate the GSM operator have provided the SIM map inserted in the modem. at the present time the possible choice is Itineris, SFR and Bouygues.

4.1.2.5. Telephone number of the SMS server

Numéro de téléphone de l'opérateur : Before can send or receive a SMS, the modem must be connected by radio to the SMS server of the operator. This connection executes to him through a pseudo telephone number having the +33nnnnnnnnn form.

When the operator is selected by means of the box of preceding choice, this telephone number is automatically informed by SMS-Monitor. To of the particular needs, it is however possible to modify this number.

If the name of the GSM operator tally to the SIM map is not found in the well known list of SMS-Monitor, write in this zone the call number of the SMS-C. server

4.1.2.6. PIN statute book

Code PIN : Validation : The modem has a SIM map. Like to a GSM, this map is protected by a PIN statute book (number of 4 figures). When the modem is mettre outside tension, or at the time of his first use, the modem asks to SMS-Monitor of provide this PIN statute book. You must indicate it in this zone.

Being given that this that you hit is not displayed to of the evident reasons of security, must write her/it you a seconds time in the validation zone. ***This PIN statute book is stocked /encrypté/ in the settings file of SMS-Monitor.***

4.1.2.7. Telephone number of the map

Numéro de téléphone de la carte : Like It has been indicated, each modem is equiped of a SIM map. This map tallies to a telephone number. That is this one that must call the GSM that desires send some SMS towards the server. This zone allows to you memorize this number.
It is purely informative and is not obligatory.

4.1.2.8. Not ask an opinion of putting back

Ne pas demander d'avis de remise

When SMS-Monitor initializes the modem, It s sends of the commands allowing to know his characteristic and capacities. Some modems, such as the Wavecom, supports the option of request of

opinion of putting back. Thanks to this option, as soon as the operator could transmit the SMS in the memory of the GSM recipient, It sends to the modem a message of information.

When the modem supports this fashion of operation, the SMS is not considered like broadcasted that when the operator returned the confirmation message of distribution.

By ticking the box this hut, SMS-Monitor won't ask of opinion of putting back to the SMS sent by this modem. From that time onwards, the SMS is considered like having been correctly messengers as soon as they have been transmitted to the operator.

This possibility is interesting when the operator not provides this service, or when It is not necessities of knowledge if the SMS has well been sent to his recipient.

4.1.2.9. Not indicate delay maximum of putting back

Ne pas indiquer de délai maximum de remise

Like It has been specified in the chapter describing the settings of SMS-Monitor, it is possible to specify a maximum delay so that the SMS is transmitted in the memory of the GSM recipients.

By ticking the box this hut, SMS-Monitor not indicates more this delay to the operator that will negotiate then the SMS as if they were sent by a GSM telephone and will apply therefore the dependent default options of the operator.

4.1.2.10. Reserved to the e-mail address

When this zone is informed, the concerned modem is reserved to the issuer that the e-mail address is indicated. It can be concerned of a SMTP address or Lotus Notes.

That means that only the requests of submitted sending since the indicated address can be sent via this modem and by any other.

Besides, all the SMS received by this modem will be automatically sent to this address.

4.1.3. Indexes

SMS-Monitor can scrutinize to regular intervals of the indexes in command to of it test the presence of files by carrying the extension.SMS. They are then considered like of the files of request of sending of message and will serve to generate some sendings of messages towards the GSM.

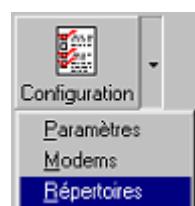
The format of these files and the making that they are treated are interface to the chapters 7.1.1 « API message files, sending ».

If you do not look in the face submitting of the SMS since of the applications, can happen you this chapter.

To define the indexes to scrutinize, select the configuration menu| Indexes or click on the bouton :

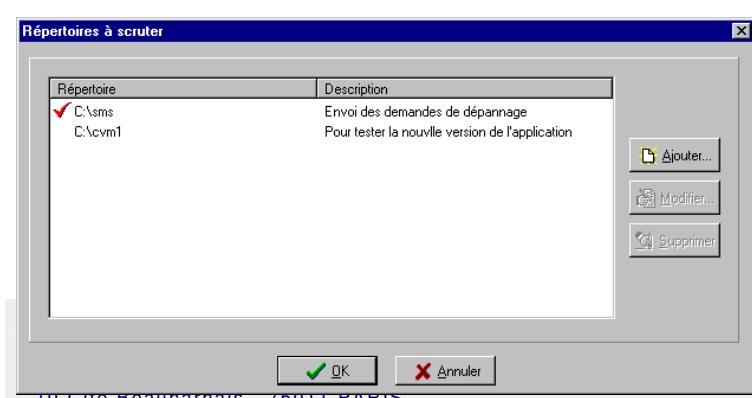
Under operation, the option of the menu and the button are disactivated.

The window that appears present the list of the indexes already configured or an empty list at the time of the first settings.



When the [scrutation] of the index is activated (see 4.1.3.1) a red check box appears on the left of the index. at any time can click on you the button add... to declare a new index to scrutinize.

To modify the definition of an index to scrutinize exist, double click on his



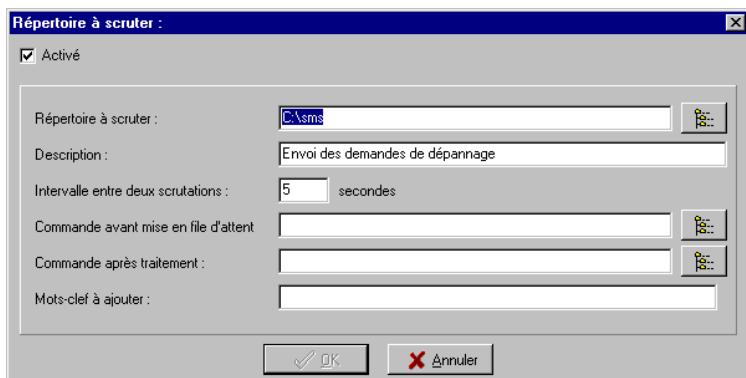
name or select it clicking on his name then click on the button modify... that is then activated.

To eliminate a declared index, select it clicking on his name then click on the button eliminate... that is then activated. SMS-Monitor you will ask confirming this suppression.

All the modifications brought on the declaration of the indexes are not effective that after validated them clicking on the Ok. button

If you desire abandon all the modifications, click on the button annul. SMS-Monitor you will ask confirming this abandonment.

The buttons add... and modify... provoke the display of a window of this type :



4.1.3.1. Activated



An index to scrutinize can be declared but temporarily disactivated. For example, in case of temporary inalienability of the file servers where finds to him the index. The act shooting this hut does not eliminate the definition of the index but avoids that the task the scrutinizing do not start at the time of the activation of the server (active fashion).

4.1.3.2. Index

Répertoire à scruter :

C:\sms



This obligatory zone allows to indicate the complete way of the index to scrutinize. Click on the button in command on the right to display a navigator allows to select this index. It can be concerned of a local disk or Network or an URL (\computer\index).

4.1.3.3. Description

Description :

Envoi des demandes de dépannage

We write in this zone a text of an any length by allowing to indicate the use of the index. This description appears in the preceding window listing the definite indexes.

4.1.3.4. Interval of [scrutation]

Intervalle entre deux scrutations :

5 secondes

This zone allows to indicate the interval in seconds between two tests of presence of files of type.SMS to negotiate in the index. This interval is not used that when It not of it has more of requests to put in waiting line. All the present requests are treated in an only time.

When It concerns to him of an index finding on a file servers, of a NFS index or a divided back of an AS400 had access by Access client, It fails avoid to specify a too low value in command to do not uselessly the Network.

On the other hand, if the delay of sending of the messages must be very short, It fails specify an enough low value that the new requests are detected rapidly.

4.1.3.5. Commands to execute

Commande avant mise en file d'attente :	<input type="text"/>	
Commande après traitement :	<input type="text"/>	

These two zones allow to indicate the complete name of commands to exécuter :

Before a request is not put in waiting line, that is-to-say rightly when It has been detected and before is read to be treated. That is typically to this moment that a specific module can recover the number of the GSM recipient in the contents of the file and replaces it by a file to the files API format (see 7.1.1).

After the request has beened negotiated, that is-to-say when all the SMS the component has well beened transmitted to the GSM recipient or when the sending is abandoned.

In the two case, the command receives like parameter the complete name of the file of request.

Click on the button in command on the right to open a navigator allows to search for the command file on the disks. It can be concerned of a.BEATS,.CMD or .EXE.

4.1.3.6. Keys words to add

Mots-clef à ajouter :	<input type="text"/>
-----------------------	----------------------

This zone allows to specify some keys words of the files API that will be automatically added to the request at the time of his placing in waiting line. Seeing these keys words to the chapter 7.1.1.

4.1.4. Tables

SMS-Monitor can use some information stocked in of the tables to generate automatically of the requests of sending of messages by SMS.



Begin by creating the lower part and the table that will be used.

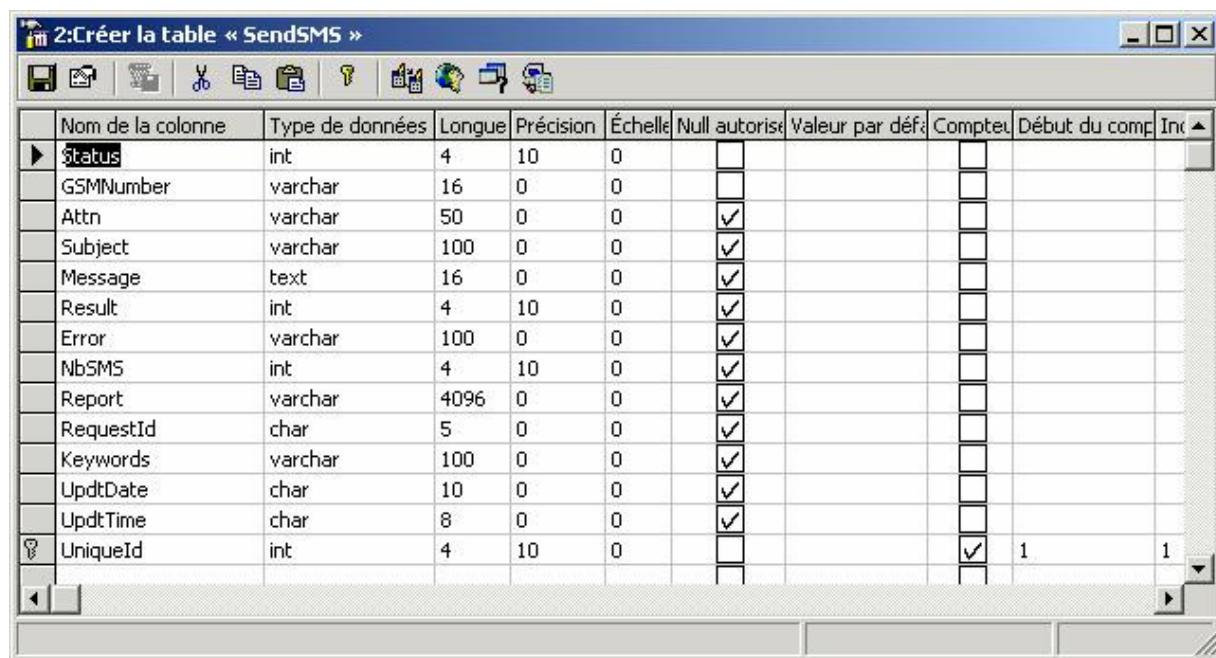
The table can contain the following fields. The column « Obligat. » Indicates if the field must exist or no. The column « Renseigné par » indicates that, of the application generating the registrations or the SMS -Monitor server, informs the field.

Field	Type	Long max	Obligat.	Informed by
Etat of the request: 0 :Ignoring 1 : Loan to be mettre in waiting line 2 : Under treatment by SMS-Monitor 3 : Finished	Int		O	Appli+Server
Number of GSM of the recipient.	varchar	16	O	Appli
Name of the recipient to info.	varchar	50	N	Appli
Object of the SMS to info and added to the sent text.	varchar	100	N	Appli
Text of the SMS.	text		O	Appli
Key-words of the file API to add automatically to all the requests(see the chapter 7.1).	varchar	100	N	Appli
Sole number assigned by SMS-Monitor to the request.	chariot	5	O	Server
Date of the last modification of statute. S ous the AAAA/MM/JJ. form	chariot	10	N	Server
Hour of the last modification of statute. S ous the HH form:MESSRS:SS.	chariot	8	N	Server

Communications et VM SAS

Number of SMS solicited to emit the message.	int		N	Server
Result of the treatment by the server. Cfield E is not initialized that when the field " state of the request " is worth 3. C ontient 1 if the message has beened correctly broadcasted and 0 otherwise	int		O	Server
Message explaining the cause of the check when the "result" field contains 0.	varchar	100	N	Server
Yield of complete treatment, such as describes in the documentation of the file API interface. Lare lign off are separate by of the CR/LF.	varchar	4096	N	Server

Example of definition of a table in SQL Server :

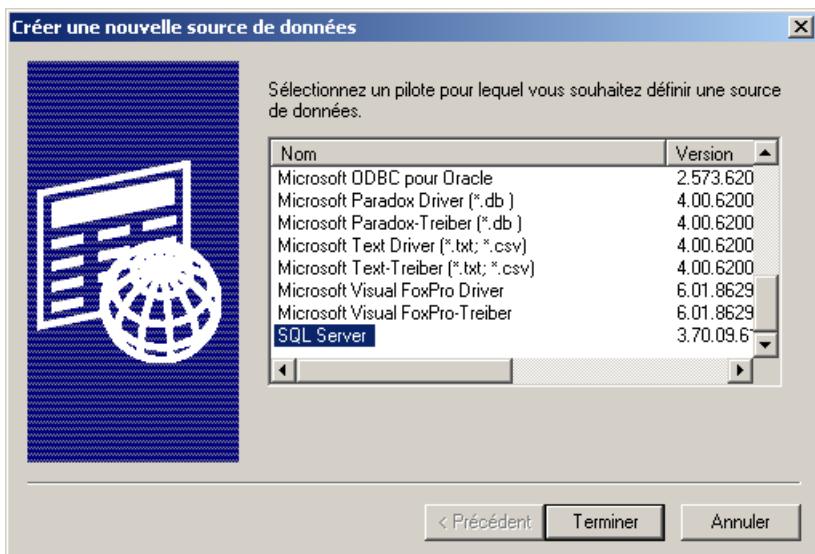


After created the lower part, you must, if necessary, install the ODBC connector tally to the used database.

You must after declare this lower part. To that, select start| Parameters| Then double Control Panel- click on the icon « Outils of administration » et enfin « Sources of datas (ODBC) » . :



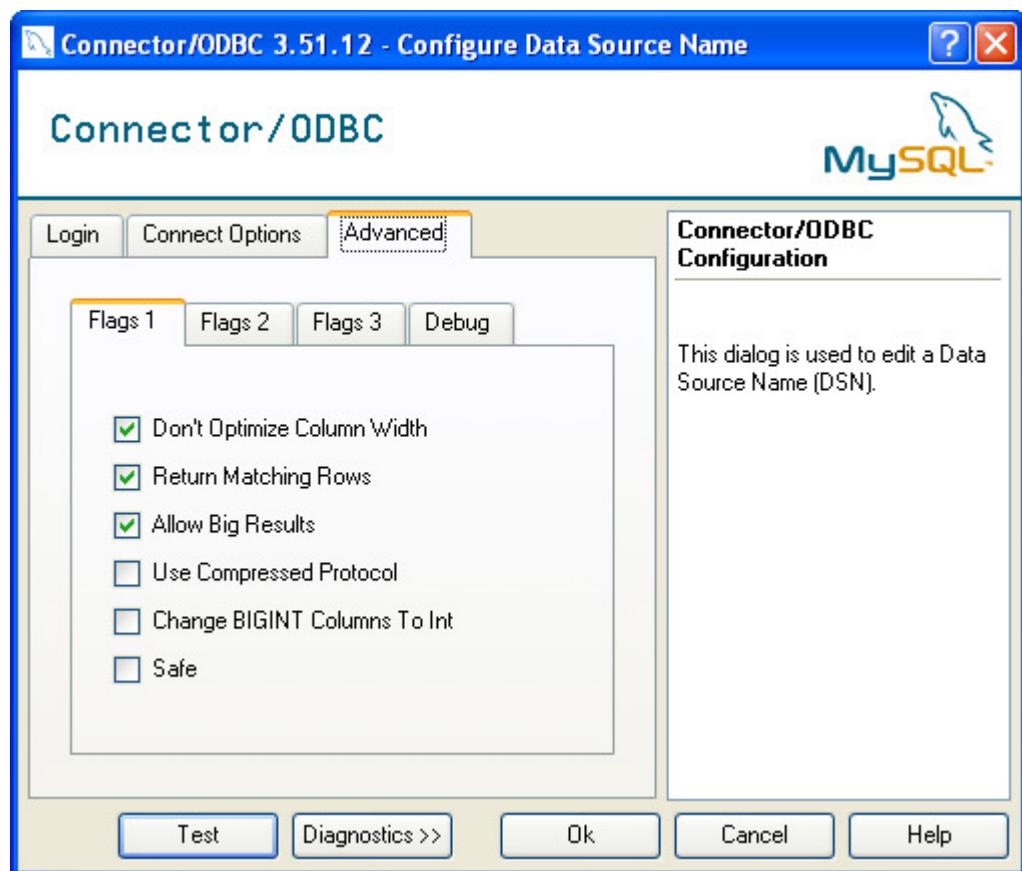
Use the button « Ajouter », then select the type of ODBC connector to use :



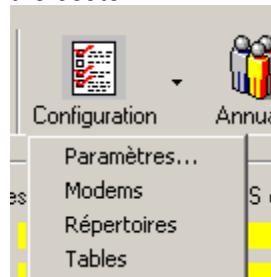
Inform after the different zones of configuration that depends of the used database.
When the or the lower part have been created as well as the ODBC connectors, return in the SMS configuration-Monitor to declare them.

Particular case of a MySQL table

If the table is managed by a MySQL server, It fails imperatively select some options like shown ci-dessous :

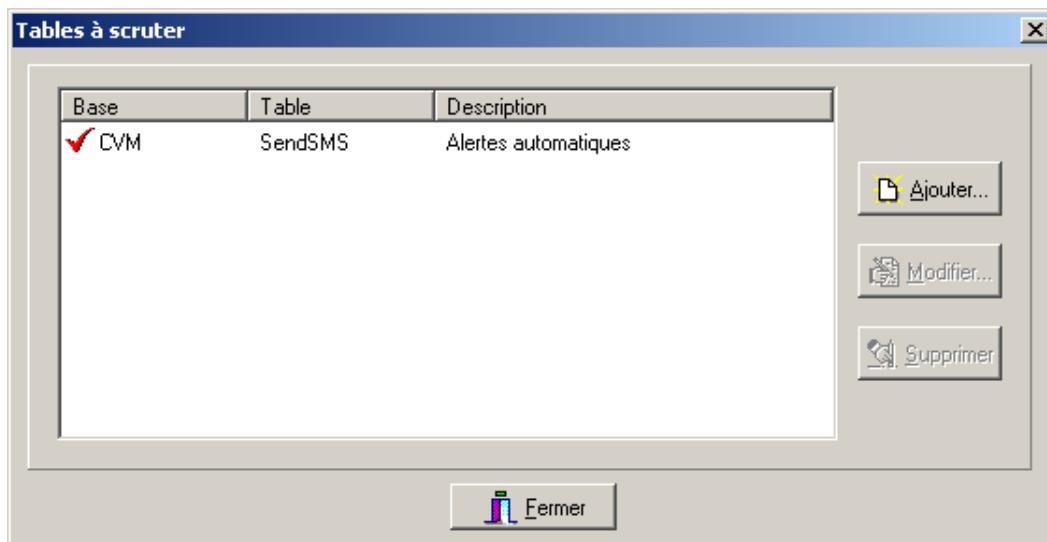


To define the tables to scrutinize, select the configuration menu| Count or click on the bouton :



◆ Under operation, the option of the menu and the button are disactivated.

The window that appears present the list of the count already configured or an empty list at the time of the first settings.



When the table is treated by the SMS-Monitor server, a red check box appears on the left of the index. at any time can click on you the button add... to declare a news counts to negotiate.

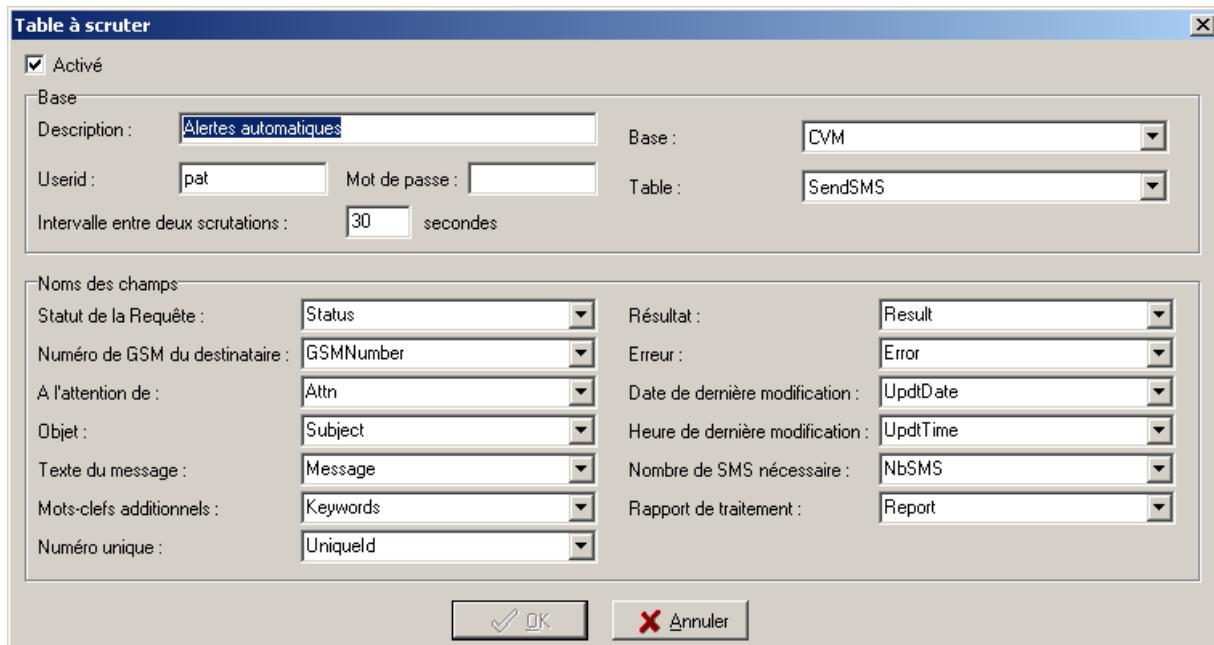
To modify the definition of a table, double-click on his name or select her/it clicking on his name then click on the button modify... that is then activated.

To eliminate a table, select her/it clicking on his name then click on the button eliminate... that is then activated. SMS-Monitor you will ask confirming this suppression.

All the modifications brought on the declaration of the tables are not effective that after validated them clicking on the Ok. button

If you desire abandon all the modifications, click on the button annul. SMS-Monitor you will ask confirming this abandonment.

The buttons add... and modify... provoke the display of a window of this type :



4.1.4.1. Activated

◆ Activé A table can be declared but temporarily disactivated.

For example, in case of temporary inalienability of the database servers. The act shooting this hut does not eliminate the definition of the table but avoids that the task the scrutinizing do not start at the time of the activation of the server (active fashion).

4.1.4.2. Description

Description :

This optional zone allows to describe the table.

4.1.4.3. Userid and password

Userid : Mot de passe :

Informing here the user code and the password to provide to can have access to the lower part in writing.

4.1.4.4. Lower part

Base : CVM

Table :

- MS Access Database
- dBASE Files
- Excel Files
- Visual FoxPro Database
- Visual FoxPro Tables
- dBase Files - Word
- FoxPro Files - Word

Résultat : CVM

Clicking on the triangle on the right of the capture area bases, a list allows to select the ODBC connector to use.

4.1.4.5. Table

Table : SendSMS

Résultat :

- SendSMS
- sysalternates
- sysconstraints
- syssegments
- CHECK_CONSTRAINTS
- COLUMN_DOMAIN_USAGE
- COLUMN_PRIVILEGES
- COLUMNS

You must have beforehand informed the zone Userid, password and bases to can have access to this capture area.

A click on the triangle on the right allows to choose the concerned table among all those existing in the lower part.

4.1.4.6. Names of the fields

Noms des champs			
Statut de la Requête :	Status	Résultat :	Result
Numéro de GSM du destinataire :	GSMNumber	Erreur :	Error
A l'attention de :	Attn	Date de dernière modification :	UpdDate
Objet :	Subject	Heure de dernière modification :	UpdTime
Texte du message :	Message	Nombre de SMS nécessaire :	NbSMS
Mots-clefs additionnels :	Keywords	Rapport de traitement :	Report
Numéro unique :	Uniqueld		

It allows to you specify the names of the fields that created you in the table.
To each, a click on the triangle on the right allows to select the corresponding field among those existing.

If of the non obligatory fields have been created, let simply the zone to whites.

The chapter 7.3 explains how use these tables to generate some requests of sending of messages by SMS.

4.1.5. Authorizations

It exists different methods to submit some requests of sending of message by SMS :

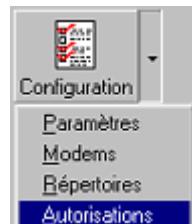
- using the integrated editor to SMS-Monitor,
- creating a file of request in a divided index,
- sending an e-mail to SMS-Monitor, since a SMTP carrying trade or Lotus Notes (domino),
- via a FTP client,
- via a Telnet client.

The first method solicits to have access to the PC where functions SMS-Monitor. The second requires of the rights of access on the divided index.

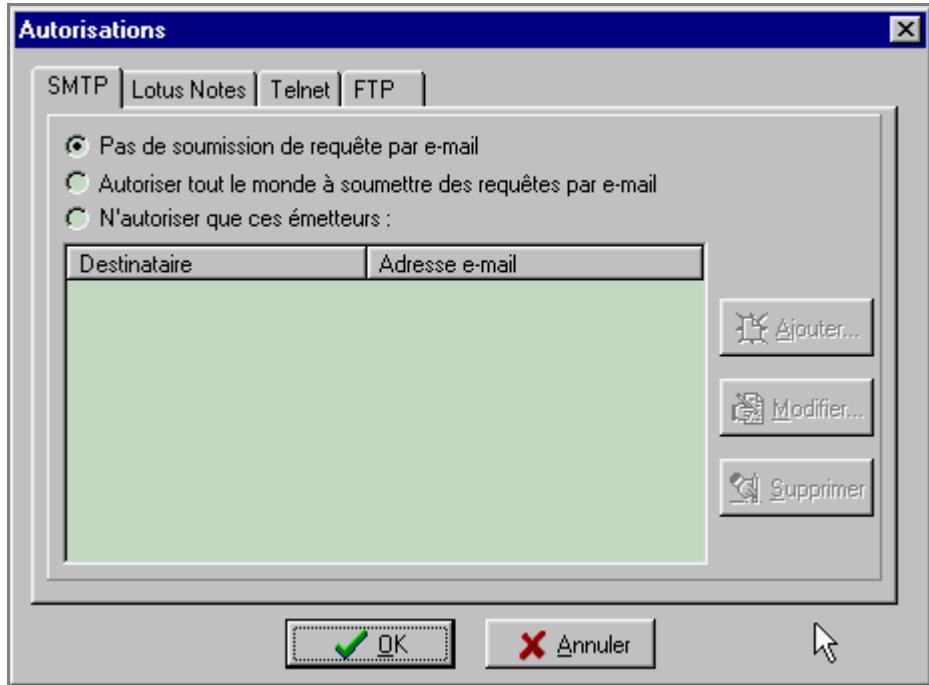
On the other hand, to the other methods, It suffices having a modulates client appropriated to can submit a request. In command also to of the reasons of security, SMS-Monitor does not allow by default any of these methods of submission.

Thanks to the window « Autorisations », you will indicate clearly to SMS-Monitor what is the methods and issuers of authorized requests.

Select configuration| Authorizations or click on the icon oppolte then select « Autorisations » in the submenu.



The window that appears contains four pages, a to each method of submission to allow or interdire :



4.1.5.1.1. SMTP

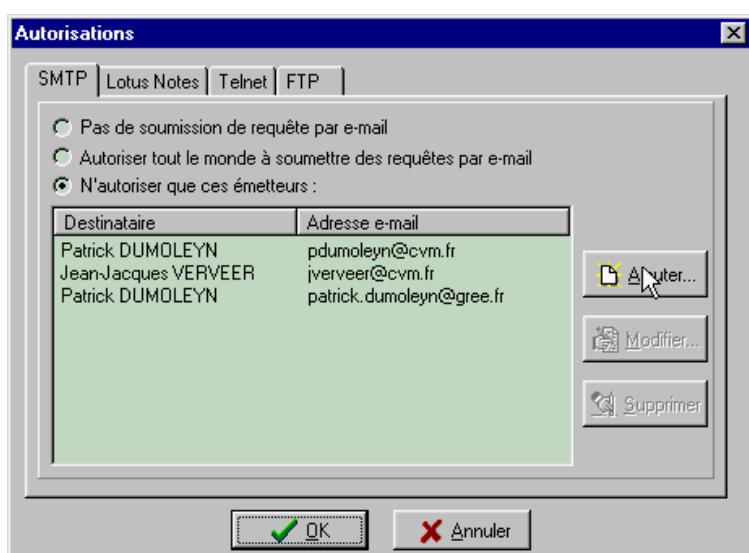
When SMS-Monitor is configured to receive some requests of sending of SMS messages by generic e-mail, a tries SMTP server is started. From that time onwards, it is possible to submit some requests of sending of message towards of the GSM directly since a client of SMTP carrying trade (Outlook express, Messenger Netscape, Eudora, etc), else since a client of a proprietor carrying trade having a SMTP interface (Lotus Notes, MS-Exchange, Groupwise, etc). Seeing the chapter 10.1 to this subject.

In this case, It will be necessary configuring the client of carrying trade or the server of carrying trade in command to associate a name of domain to the IP address or in the name of host executing SMS-Monitor.

For example, if the assigned domain to the Server SMS-Monitoris gsm.cvm, It suffices addressing the messages to send one - address of the form 06nnnnnnnn@gsm.cvm so that SMS-Monitor receive the message and the stretch.

You can indicate to the choix :

- that SMS-Monitor must not accept a request of sending by e-mail ; in this case, the SMTP server enclosed in SMS-Monitor is not started.
- that everybody can submit some requests of sending by e-mail,
- that only the indicated issuers in the list that follows are autorisés ; the rejected requests provoke the sending of an e-mail of warning to the issuer.



Communications et VM SAS

When the third choice has been selected, the buttons on the right of the list are activated and allow to manage her/it.

Clicks on the button « Ajouter... » to allow a new issuer :



Selecting a name in the list and clicks on « Modifier... », or double clicks on a line of the list to can change a value.

Selecting a name in the list and clicks on « Supprimer » to eliminate the corresponding entry.

IMPORTANT : You can use some characters « jokers » * and \$ in the address e-mail of the authorized issuers. The sign \$ replaces any character and the sign * replaces any character strings.

For example, specify the address « @cvm.fr » will indicate that all the issuers belonging to the domain of carrying trade cvm.fr can submit some messages towards the GSM.

When the capture area « Initials » is informed, all the SMS sent by the user is automatically prefixed by « De #xx# » where xx are the initials. When SMS-Monitor receives a SMS and that it contains #xx#, it is automatically sent by e-mail to this user.

The zone « Nombre maximum of SMS by mois » allows to limit the SMS number sent by the user. The numbering is executed from first to last day of each month. As soon as the boundary is reach, all the requests of sending by the user is rejected up to first day of the following month. The user informed by an e-mail.

When 0 is indicated in this zone, it not of it has any boundary.

4.1.5.1.2.Lotus Notes

SMS-Monitor can also receive the requests of sending of SMS through a proprietor connection with a server of Notes/Domino lotus carrying trade.

In this case, it will be necessary installing a client note on the SMS computer-Monitor, and configure the servers of lotus carrying trade in command to declare a name of foreign domain SMS.

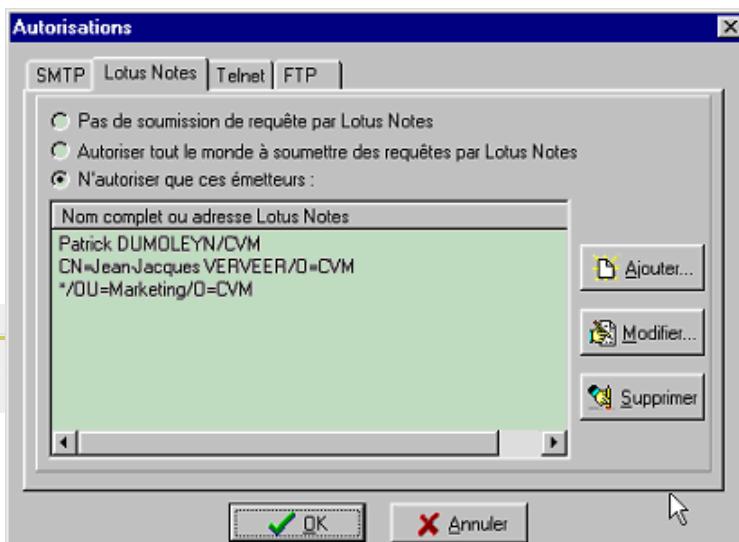
Next, if for example the assigned domain to SMS-Monitor is |gsm|, it suffices addressing the messages to send one - address of the 06nnnnnnnn@gsm so that SMS form-Monitor receive the message and the stretch.

In the window of authorization, can indicate you to the choix :

- that SMS-Monitor must not accept a request proceeding of lotus,

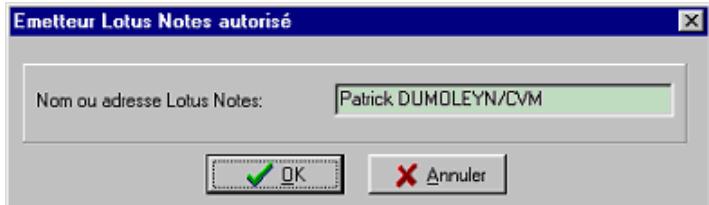
Communications et VM SAS

RCS Paris B 331 758 904
SAS capital 152.449,02Euros
10 Cité Beauharnais - 75011 PARIS



- that everybody can submit some requests of sending by e-mail,
- that only the indicated issuers in the list that follows are autorisés ; the rejected requests provoke the turn of an e-mail of warning to the issuer.

When the third choice has been selected, the buttons on the right of the list are activated and allow to manage her/it.



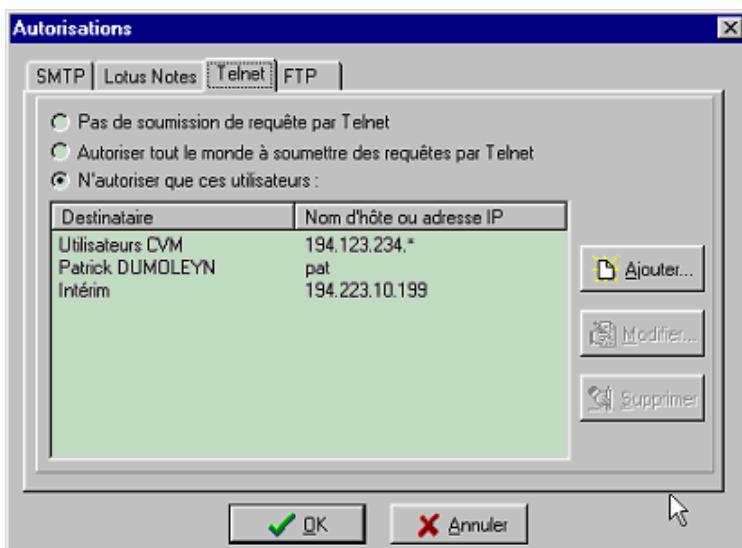
Clicks on the button « Ajouter... » to allow a new issuer :

Selecting a name in the list and clicks on « Modifier... », or double clicks on a line of the list to can change a value.

Selecting a name in the list and clicks on « Supprimer » to eliminate the corresponding entry.

Seeing also the chapter 8.5 to the configuration of the lotus server, and the chapters 8.3 and 10.1 to the submission of SMS requests since a client of carrying trade.

4.1.5.1.3.Telnet



The Telnet client module is available with many systems of exploitation : Windows 95, 98, NT, 2000, Unix, etc. It allows to be in communication of interactive manner with a Telnet server. The chapter 10.2 page 168 explains how submit some requests via a Telnet client.

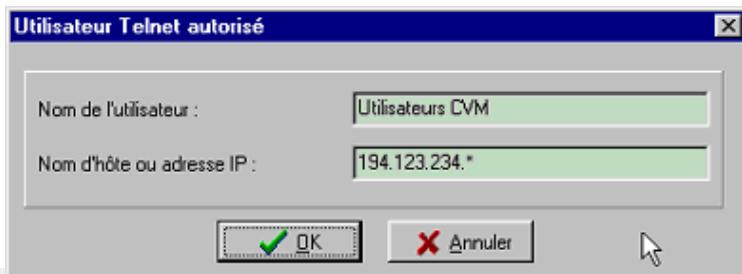
The following window allows to define that can submit some requests by a Telnet client.

You can indicate to the choix :

- that SMS-Monitor must not accept any submitted request by Telnet; in this case, the Telnet server enclosed in SMS-Monitor is not started.
- that everybody can submit some requests of sending by Telnet,
- that only the indicated issuers in the list that follows are autorisés ; the rejected users are informed by a message that they are not authorized.

When the third choice has been selected, the buttons on the right of the list are activated and allow to manage her/it.

Clicks on the button « Ajouter... » to allow a new issuer :



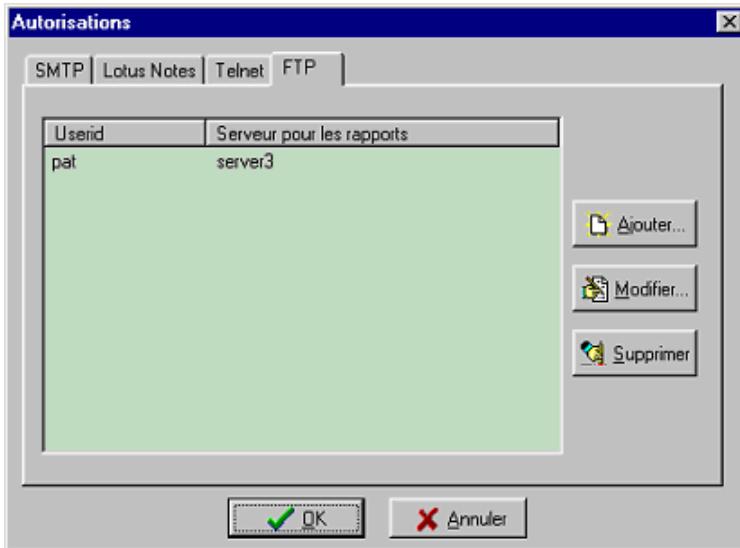
Selecting a name in the list and clicks on « Modifier... », or double clicks on a line of the list to can change a value.

Selecting a name in the list and clicks on « Supprimer » to eliminate the corresponding entry.

IMPORTANT : you can use some characters « jokers » * and \$ in the address e-mail of the authorized issuers. The sign \$ replaces any character and the sign * replaces any character strings. For example, specify the address « 195.123.234.* » will indicate that all the computers belonging to the under CVM Network can broadcast of the messages via their Telnet client.

4.1.5.1.4.FTP

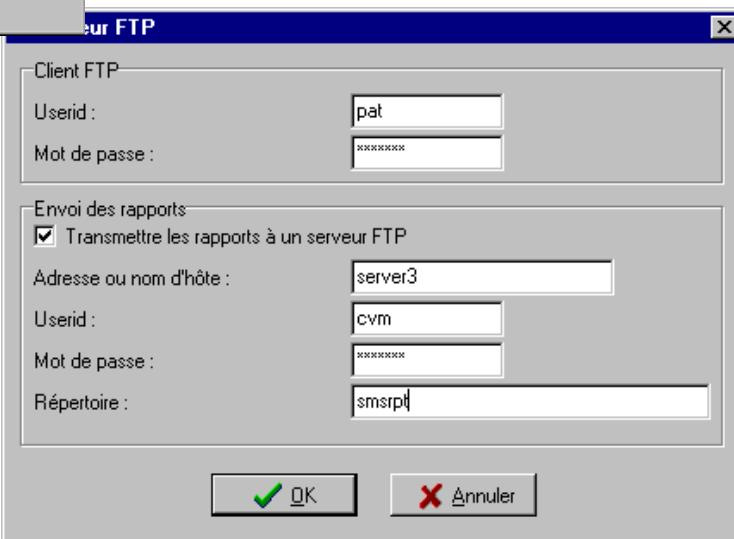
The FTP client module is available with many systems of exploitation : Windows 95, 98, NT, 2000, Unix, etc. It allows to comfortably exchange of the files with a FTP server. The chapter 10.3 page 171 explains how submit some requests via a FTP client.



The following window allows to define that can submit some requests by a FTP client.

If you wish allow everybody to submit some requests, must add you an authorization indicating « anonymous » like user code.

It concerns to him of a reserved name used throughout the FTP servers. When the anonymous connections are authorized by a FTP server, all request of connection to the user « anonymous » is accepted without roll of password.



Click on the button « Ajouter... » to add a new FTP client:

Select a name in the list and click on « Modifier... », or double click on a line of the list to can change a value.

Select a name in the list and click on « Supprimer » to eliminate the corresponding entry.

4.1.5.1.4.1. FTP client

The screenshot shows a window titled 'Client FTP' with fields for 'Userid' (pat) and 'Mot de passe' (xxxxxx).

to the minimum, must indicate you the user code (|userid|) and the password that must indicate the FTP client at the time of the opening of the session. Like indicated above, if the |userid| is « anonymous », the password is not necessary.

It is strongly registered assigning of the specific user codes according to the and/or users of the applications depolt of the requests of sending. Indeed, when SMS-Monitor accepts a FTP session, It created automatically, if necessary, a subdirectory that the name is the user code. The files transmitted to SMS-Monitor by the FTP client keep the indicated name by this one but are set down in the specific index.

Like this, all the users achieving an anonymous connection depolt their files of request in the subdirectory « anonymous ». There is therefore of the risks of collision on the filenames and the requests risk being unobtrusive by mistake.

4.1.5.1.4.2. Sending of the yields

Envoi des rapports

Transmettre les rapports à un serveur FTP

Adresse ou nom d'hôte :

Userid :

Mot de passe :

Répertoire :

Like It is explained to the yield chapter of page treatment 119, SMS-Monitor adds of the registrations of roll at the end of the file of request with the progression of the treatments. When the message has beened completely messenger, or that the operator indicated that It could not send it, the extension of the

file of request is changed in.SNT or.ERR follow the case.

An application submitting of the requests of sending by FTP can want to detect and treat these produced yields by SMS-Monitor.

The method the more simple consists, to regular intervals, to reconnecter to him to the FTP server enclosed in SMS-Monitor and to test the presence of files *.SNT and *.ERR and repatriates them, then eliminating them. The disadvantage of this method is that It generate of the useless trading on the Network and that It obliges to spread out an application piloting the FTP client.

The method second, that is much more efficacious, consists to ask to SMS-Monitor sending the yields of treatment on a FTP server. It suffices then to the application examining to regular intervals the contents of the disk space where the concerned FTP server will copy the received yields of SMS-Monitor.

To put œuvre this seconds method, It suffices to coachman the hut « Transmettre the yields to a FTP server ». That active the capture areas that follow. The minimum in front of is specified is the IP address or the name of host of the FTP server targets.

ATTENTION : this FTP server must be accessible by the PC where functions SMS-Monitor. In particular, this last has not beened foreseed to establish dynamically a RAS connection with the PC where functions the FTP server.

You can also write an user code and a password to establish the session with the FTP server. If you omit these information, SMS-Monitor will tempt establishing an anonymous connection with the server.

Finally, can indicate you the potential index in which the FTP server will create the yields of treatment. If this inquiry is not seizure, the yields will be created in the index by default assigned at server level to this user code.

ATTENTION : you must settle oneself firmly you that the specified user code possesses well the right writing in the indicated index.

4.1.6. Alarms

The good operation of the Server SMS-Monitor often is strategic. For example, it is used to send some alarms of dysfunction of the central data processing or a Web server, or to inform some clients that an action occurs taking down below of a critical threshold.

It is fundamental that the messages are transmitted without wait to the GSM recipients. Unfortunately, changing exterior events can disrupt, in truth prevent, the step of the SMS towards the operator, then towards the GSM.

It is therefore primordial that the people concerned can be alerted as soon as possible of a such situation in command to concern in command as soon as possible to re-establish the normal operation.

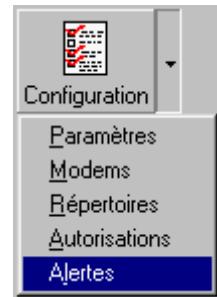
That is to these reasons, that SMS-Monitor integrate a trigger function of alarm. When an anomaly is detected, automatically and instantaneously, the server can execute a certain number of actions and send some messages towards the meadow recipients-informed.

An alarm has the form : Nnn alarm: text

Where « nnn » is a corresponding number to the type of the event, and « texte » a message by explaining the conditions of the releasing. *All the code and texts are listed in the board of the N 4.1.6.4 chapter.*

The alarms to trigger, the actions to execute, and the people to alert are managed by means of a dialog box that open to him clicking on the icon « Configuration » of the toolbars then in selecting « Alertes » in the submenu, or selecting the configuration menu| Alarms.

This dialog box is accessible at any time, including during the operation of the server. The modifications are immediately taken in account. They represent a notebook to several leaves.



The Events page allows to select the [évenements] that will give place to a releasing of alarm.

The actions page allows to specify what actions must be executed at the time of the detection of an event in front of generating an alarm.

The messages page allows to list the recipients towards which SMS-Monitor must send the alarm messages by SMS and/or by e-mail.

4.1.6.1. Evènements

This page allows to select the events that will give place to a releasing of alarm.



4.1.6.1.1.Level of the GSM signal insufficient

When the server is started, It displaies a window to each managed modem. in the middle of each appears an oscilloscope by indicating the level of the GSM signal. Below the value 10 , It is not more possible being in communication with the GSM operator.

If this check box, SMS-Monitor will trigger an alarm when the signal of one of the modems descends to 10 or underneath.

4.1.6.1.2.Dysfunction of a modem

Each modem is managed via a twists RS - 232 by a joining of type arranges in series. Several carriers can drag a dysfunction of a modem : defective cable, perturbation of the signal by of the strong running electric or electromagnetic, electric cut microphone, etc.

SMS-Monitor detects immediately this type of problem because of incorrect answers to the command pasted to the modem, or by the absence of answer.

4.1.6.1.3.SMTP server |inopérationnel|

If a SMTP server has been configured (see the chapter 4.1.1.4 SMTP), same outside of all activity, SMS-Monitor verifies to regular intervals the availability of this server tempting connecting, then is disconnected. An alarm will be immediately triggered if the connection fails.

4.1.6.1.4.Index to scrutinize inaccessible

SMS-Monitor will trigger an alarm if the an any of the indexes that It must scrutinize to of it detect some requests of sending (see 4.1.3) is not more accessible.

4.1.6.1.5.Transmission queue depth

In this capture area, it is possible to indicate a critical threshold of transmission queue depth. That is-to-say some messages that have beened mettre in waiting line and that have not still beened transmitted to the GSM operator, is because It is not accessible, is because the requests of sending of messages arrive more fast than they cannot be transmitted.

An alarm will be triggered as soon as this number will be reached. Indicating 0 in this zone will eliminate this type of alarm.

4.1.6.1.6.Informing at the end of alarm

All the types alerting above stated tally to a ltuation that can last, and especially that can be finished, is of lt-same (level of the signal for example), is after an intervening.

The act By ticking the box this hut, asks to SMS-Monitor triggering an alarm at the time of the detection of fineness of anomaly, this that can avoid, for example, of displace to him when the signal is become again normal.

4.1.6.1.7.Receipt of request of invalid sending

This alarm will be triggered to each request of sending of message received by the server and that the format is invalid. For example, there is not a number of GSM recipient. When the requests of sending are generated by a data processing application, that can, indeed, be the sign of a dysfunction of this last.

4.1.6.1.8.Opinion of check of a SMS receipt of the operator

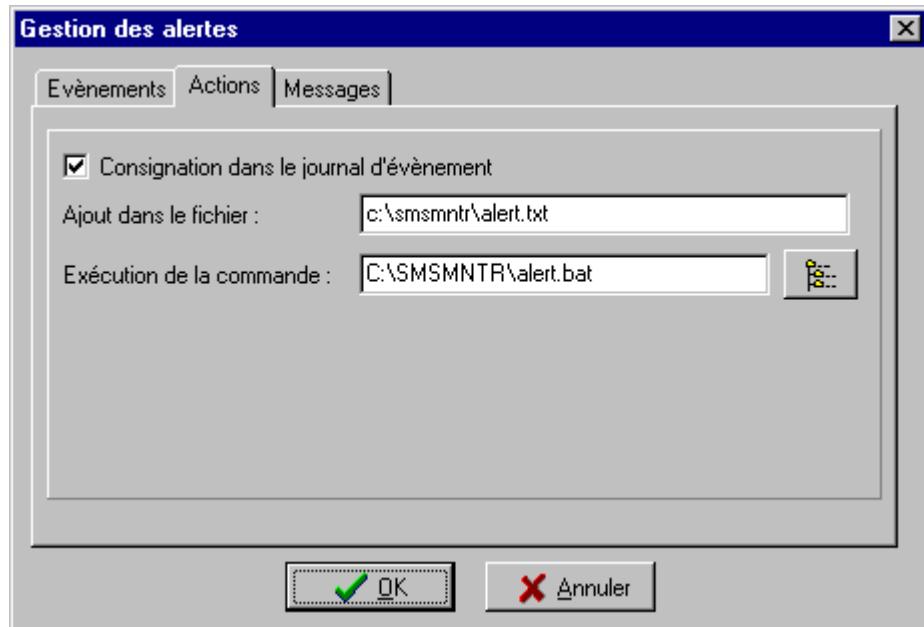
This alarm will be triggered every time the GSM operator will send the indication that a SMS has been abandoned. It can be concerned then of a number of GSM invalid or unknown, or when the SMS did not could be transmitted in the maximum authorized time (see delay of page 34 deliverance) ;

4.1.6.1.9.In case of error of sending by FTP

This alarm is triggered every time an error produced at the time of the attempt of sending of a file towards a FTP server. It can of it have changing cause such as the FTP server inaccessible, the user code or the erroneous password, of the insufficient rights to create a file, etc.

4.1.6.2. Actions

The page second allows to specify what actions must be executed at the time of the detection of the event in front of generating an alarm.



4.1.6.2.1. Depolt in the journal of event

The text of the alarm is then recorded in the journal « applications » of the journal of event of the PC. It can be visualized in sélectionnant :

Starting| Programs| Tools of administering| Observer of event

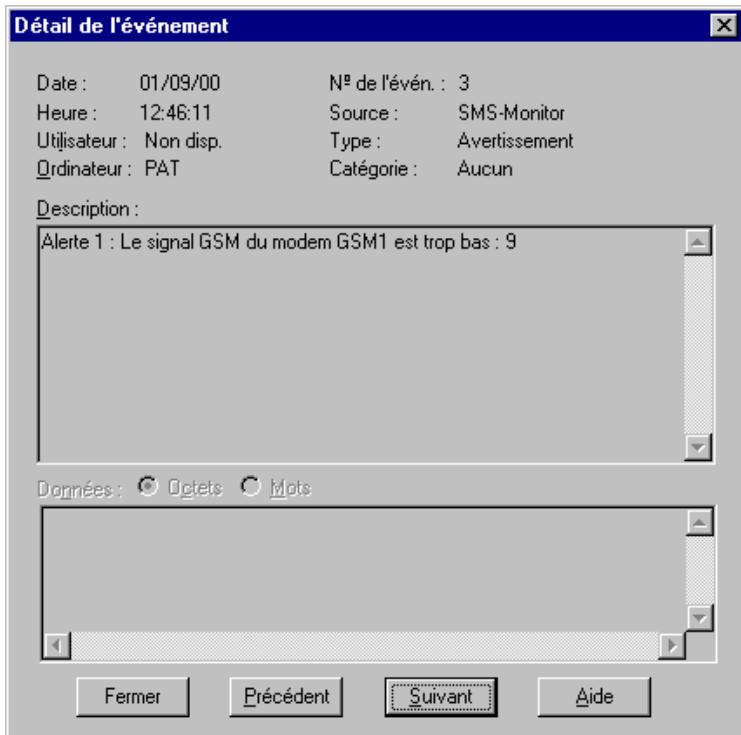
Then in the window « observateur of événement » :

Journal| Applications

The generated alarms by SMS-Monitor are marked by the SMS name-Monitor in the Source column:

Observateur d'événements - Journal applications sur \PAT							
Date	Heure	Source	Catégorie	Évén.	Utilisateur	Ordinateur	
01/09/00	12:46:52	SMS-Monitor	Aucun	3	Non disp.	PAT	
01/09/00	12:46:11	SMS-Monitor	Aucun	3	Non disp.	PAT	

Double-click on an entry to see the text of the alarm. By exemple :



4.1.6.2.2.Addition in the file

This zone allows to write the complete name of a file in which the alarm message be added. SMS-Monitor must have access in writing on this file, for want of what the text of the alarm never won't be added.

The text of the alarm is prefixed of the date and the hour of the event. By exemple :



4.1.6.2.3.Execution of the command

This capture area allows to indicate the complete name of an command to execute at the time of the releasing of the alarm. It can be concerned of a script, of a practicable, or all file class that Windows knows how execute. The command receives the text of the alarm in parameter.

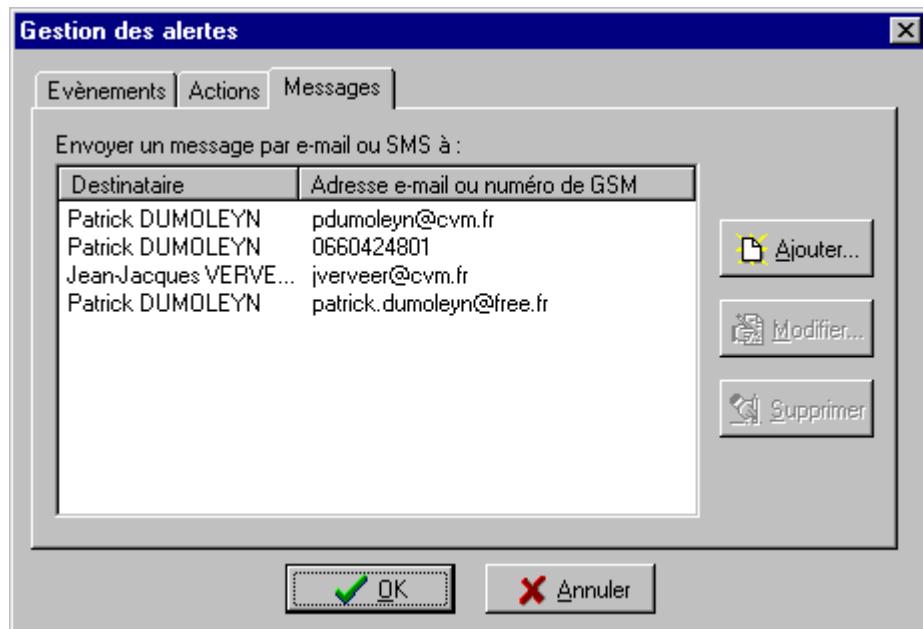
For example, the executed command can être :

C:\SMS-Monitor\alert.cmd Alerte 1 : The signal of the GSM1 modem is too bas : 9

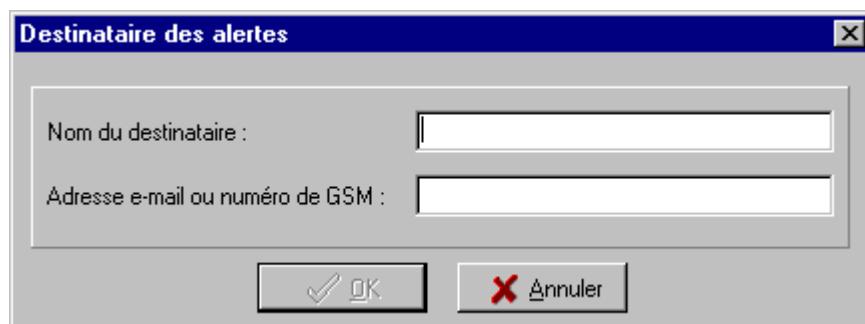
The task of releasing of the alarms is suspended during the execution of the command. It fails therefore avoid all application by asking a human intervening.

4.1.6.3. Messages

The third page allows to list the recipients towards which SMS-Monitor must send the alarm messages by SMS and/or by e-mail.



Click on the button « Ajouter... » to declare another destinataire :



Select a name in the list and click on « Modifier... » or double click on a line of the list to can change a value.

Select a name in the list and click on « Supprimer » to eliminate the corresponding entry.

Of course, if the alarm tallies to a level of GSM signal too low or to a dysfunction of modem, only of the alarms by e-mails will be generated.

In the same way, if the alarm tallies to an inalienability of the SMTP server, only of the SMS messages will be generated.

Example of alarm message received by e-mail :



4.1.6.4. Code and alarm messages

Each alarm message has the form: Nnn alarm: text

The different values of |nnn| and the associated texts is listed below.

The statute book having a 1nn value tallies at the end of the state of anomaly of the event that the value is |nn|.

1 alarm: *The GSM signal of the modem xxxx is too low: nn*

xxxx is the symbolic name of the modem and nn : is the value of the signal.

2 alarm: *Error at the time of the management of the modem xxxx*

xxxx is the symbolic name of the modem.

3 alarm: *The index to scrutinize /yyyyyyyyyyyyy/ is inaccessible*

|yyyyyyyyyyyyy| is the complete way of the index that cannot more be scrutinized.

4 alarm: *The SMTP server /sssssssss/ is inalienable*

|sssssssss| is the name of |host| or the IP address of the SMTP server declared in the settings SMTP.

5 alarm: *There are iii waiting messages of emission*

iii is the waiting message number of submission towards the or the operators.

6 alarm: *request of invalid sending: cccccccccccccc*

cccccccccccccccccc is the cause of the throwing out.

7 alarm: *Sending of SMS towards 06ggggggg abandoned: cccccccccccccc*

06|ggggggg| is the GSM number of the recipient and cccccccccccccc is the cause of the error.

8 alarm: *Error at the time of the communication with the /ffffffff/ FTP server*

An error produced to him at the time of the attempt of sending of a file towards the |fffffff| FTP server. Consulting the |log| of the server to know the cause of the error.

101 alarm: *The GSM signal of the modem xxxx is again correct: nn*

xxxx is the symbolic name of the modem and nn : is the value of the signal.

102 alarm: *The modem xxxx is again operational*

xxxx is the symbolic name of the modem

- 103 alarm:** *The index to scrutinize /yyyyyyyyyyyyyy/ is again accessible*
|yyyyyyyyyyyyyy| is the complete way of the index can again be scrutinized.
- 104 alarm:** *The SMTP server /sssssssss/ is again available*
|sssssssss| is the name of |host| or the IP address of the SMTP server declared in the settings SMTP.
- 105 alarm:** *The queue depth is become again inferior to |jjjj|*
|jjjj| is the queue depth above of which it fails trigger the alarm.

4.1.7. Annual

When the requests of sending of messages is submissive, they can indicate the number of the GSM recipient. instead of this number, they can solely contain the name of the recipient or his identifying. In this case, SMS-Monitor will search for the number of the GSM in his integrated annual. It does not find the correspondence, the request will be abandoned.

The making specifying the recipient of a message in a file of requests is interface to the chapter 7.1.1 « API message files, sending ».

Select configuration| Annual or click sur : at any time, including the server, it is possible to manage this annual.



during the operation of

The window that appears present the list of the users of GSM already configured or an empty list at the time of the first settings.

Annuaire des GSM

Nom	Prénom	Identifiant	Société	Numéro de GSM
ALPHONSE	Daudet	0001		0660435677
DUMAS	Alexandre	0003		066033112244
HUGO	Victor	0002		0662447843

at any time, can click on you the button add... to declare a new user.

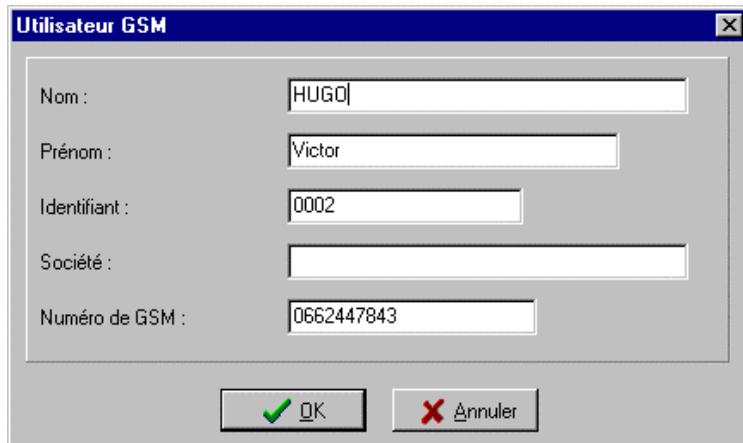
To modify the definition of an user exist, double click on his name or select it clicking on his name then click on the button modify... that is then activated.

To eliminate a declared user, select it clicking on his name then click on the button eliminate... that is then activated. SMS-Monitor you will ask confirming this suppression.

All the modifications brought on the declaration of the users are not effective that after validated them clicking on the Ok. button if you desire abandon all the modifications, click on the button annul. SMS-Monitor you will ask confirming this abandonment.

The buttons add... and modify... provoke the display of a window of this type :

You must imperatively indicate a number of GSM as well as the and/or name the identifying. The other zones are optional.



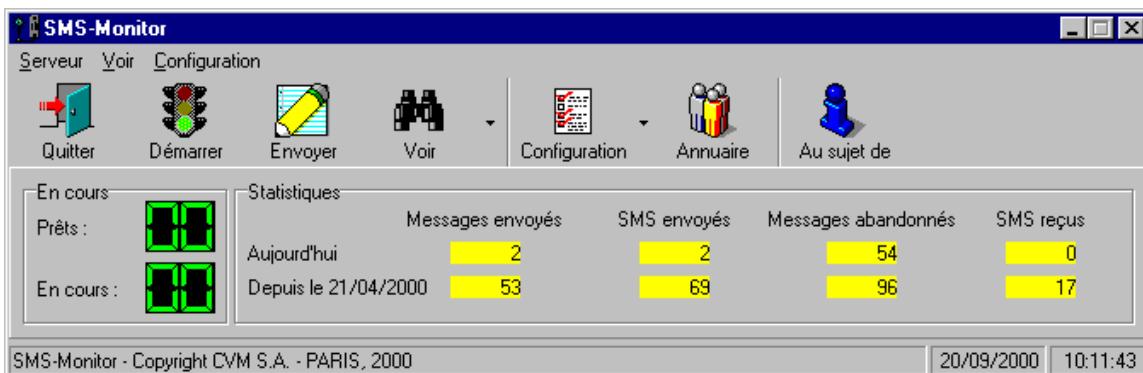
4.2. Operation of SMS-Monitor

4.2.1. Inactive fashion

When SMS-Monitor is rushed in non automatic fashion (|vs| to the starting or in service), the different tasks of treatment is not automatically started.

The inactive fashion serves to settings the server.

The following window apparaît :



The meter « Prêts » indicates the transmission queue depth towards the or the GSM operators.
The meter « En cours » indicates the submissive message number to the GSM operators to which the opinions of putting back on the GSM recipient has not beened still completely received.

The rectangle « Statistiques » indicates to the day in progress and since the first utilisation :

- The number of messengers messages, that is-to-say the request number of sendings correctly broadcasted.
- The number of SMS messengers. It concerns to him of the SMS number having been necessary transmitting in all in command to send the messages (a message can more solicit of a SMS).
- The message number has been abandoned.
- The number of SMS received.

To know the version of SMS-Monitor that you use, select the server menu| about... else clicks on the bouton :



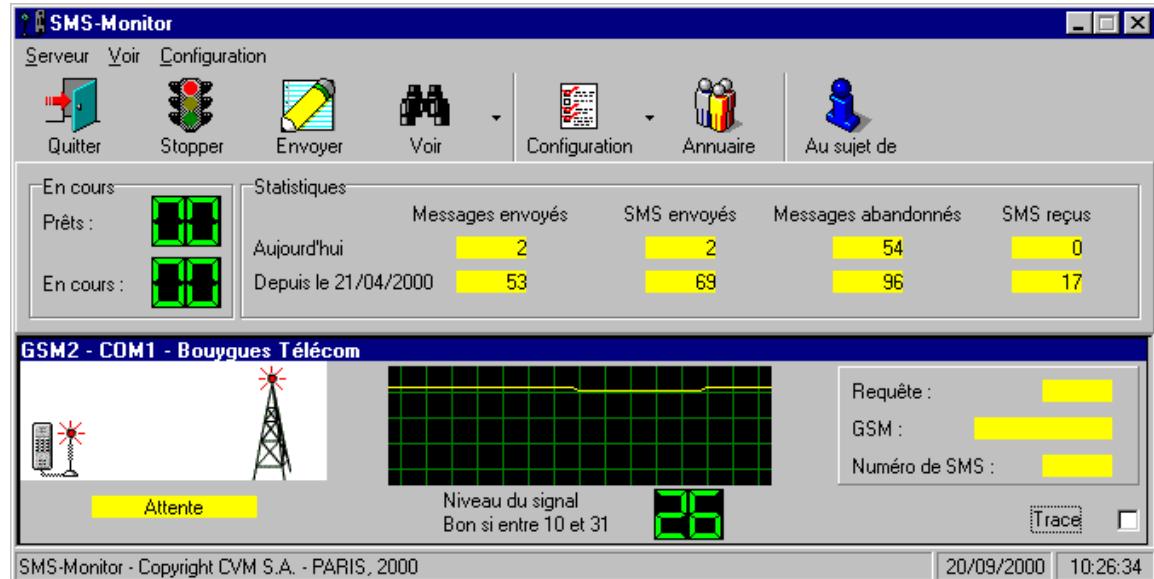
To repair by invisible mending the session, select the server menu| Going out, else click on the button SMS-Monitor you ask then confirming that the application must be repaired by invisible mending.



To activate the transmissions, It fails select the server menu| Starting, else clicks on the ci-contre button:



A window like this one is then affichée :



To deactivate the transmissions and return to the inactive fashion, It fails select the server menu| Repairing by invisible mending, else clicks on the ci-contre button; the application will ask confirmation.



4.2.2. Active fashion

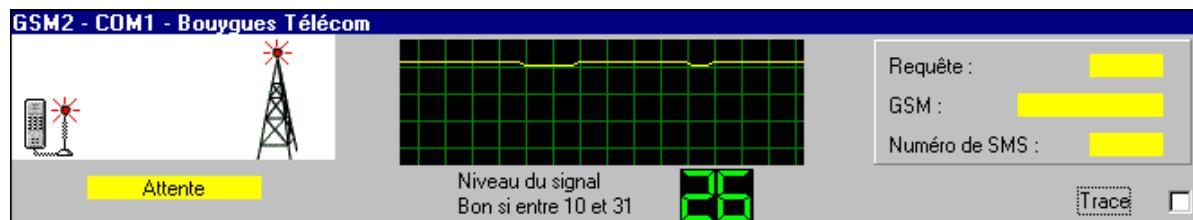
When SMS-Monitor is started of automatic manner (to the opening of the session or in service). The tasks of treatment are automatically started.

In inactive fashion, It fails select in the server menu| Starting else clicks on the button to start the server, that is-to-say all the configured tasks.



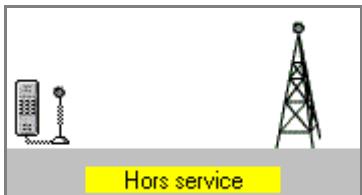
Another middle to start SMS-Monitor in active fashion is of happen the –START parameter in the command prompt.

Under the principal window appears then as much put windows in that of GSM modems declared and activés :

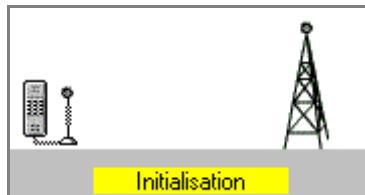


Communications et VM SAS

If the window number to display passes the cutting of the screen, a lift on the right allows to make scroll them. The different information contained in each window is interface below. The left part shows the state of the modem. The different possible states sont :



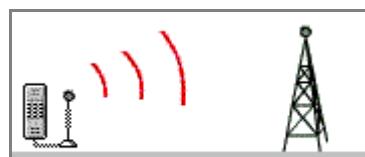
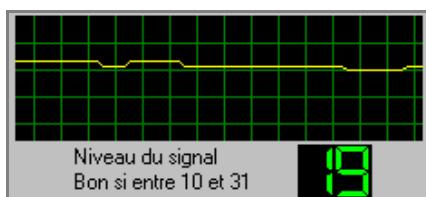
The modem is not still initialized (else It is not accessible).



SMS-Monitor is initialize the modem. Cela can take some seconds if the modem has already been initialized and that It has not beened mettre outside tension since, or otherwise almost a minute



The modem is connected to the server of the GSM operator and is inactive



The modem sends a SMS towards the server of the operator.

The central part of the window indicates the quality of the signal between the modem and the server of the GSM operator so that the communication can have place, the signal must be understanded between 10 and 31.

The right part is not informed that when SMS-Monitor transmits a SMS towards the server of the operator. It indicates the SMS number-Monitor of the request under sending, the number of the GSM recipient and the sequence of the SMS in relation to the complete message.

Requête :	00006
GSM :	0672774217
Numéro de SMS :	1/1

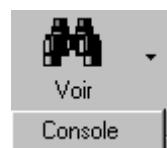
Finally, the hut to check trace below on the right allows to activate the trace of the communication between SMS-Monitor and the radio modem. This trace appears as message in the window comforts if It is visualized and in the file of log of the day.



4.2.3. Window comforts

Like indicated previously, it is possible to ask the display of a puts windows in [défilante] showing all the messages of operation produced by the different tasks of the serveur :

This window can be displayed selecting see| Console in the menu, or clicking on the icon opposite. It can also be automatically opened by SMS-Monitor to the starting when the option has been selected in the parameters of the server (see 4.1.1.1.2 chapter).



```

SMS-Monitor - Console
13:30:12 SMTP Message GSM15 envoyé à pdumoleyn@cvvm.fr
13:30:15 GSM1 Message d'aquittement reçu :
13:30:15 GSM1 +CDS: 6,7,"+33672774217",145,"00/04/21,13:29:52+00","00/04/21,13:29:59+00",0
13:30:15 GSM1 Requête 00005 : Avis de remise 7 reçu (1/1)
13:30:15 Requête 00005 : Envoyée
13:30:15 Requête 00005 : Correctement traitée
13:33:54 Mise en file d'attente de la requête 00006, fichier C:\sms\server.sms
13:33:54 #SMS-Monitor: NUMBER 0672774217
13:33:54 Requête 00006 : Nombre de SMS requis : 1
13:33:54 Requête 00006 mise en file d'attente
13:33:54 Requête 00006 : Prête
13:33:54 Requête 00006 : attribuée au pilote SMS GSM1
13:33:54 GSM1 Traitement de la requête 00006
13:33:54 GSM1 Requête 00006 : Envoi vers le GSM 0672774217
13:33:54 GSM1 Requête 00006 : Envoi du SMS 1/1 - 40 caractères
13:33:59 GSM1 Requête 00006 : SMS 1/1 envoyé - Id : 8
13:33:59 GSM1 Requête 00006 : Message transmis - 1 SMS
13:34:01 GSM1 Message reçu
13:34:01 GSM1 +cMTI: "SM",2
13:34:01 GSM1 Lecture du message reçu 2
13:34:01 GSM1 Message 6 reçu de +33672774217, 42 caractères
13:34:03 Le SMS reçu GSM16 va être envoyé à pdumoleyn@cvvm.fr
13:34:03 SMTP Envoi du message GSM16 à pdumoleyn@cvvm.fr
13:34:03 SMTP Message GSM16 envoyé à pdumoleyn@cvvm.fr
13:34:07 GSM1 Message d'aquittement reçu :
13:34:07 GSM1 +CDS: 6,8,"+33672774217",145,"00/04/21,13:33:48+00","00/04/21,13:33:51+00",0
13:34:07 GSM1 Requête 00006 : Avis de remise 8 reçu (1/1)
13:34:07 Requête 00006 : Envoyée
13:34:07 Requête 00006 : Correctement traitée

```

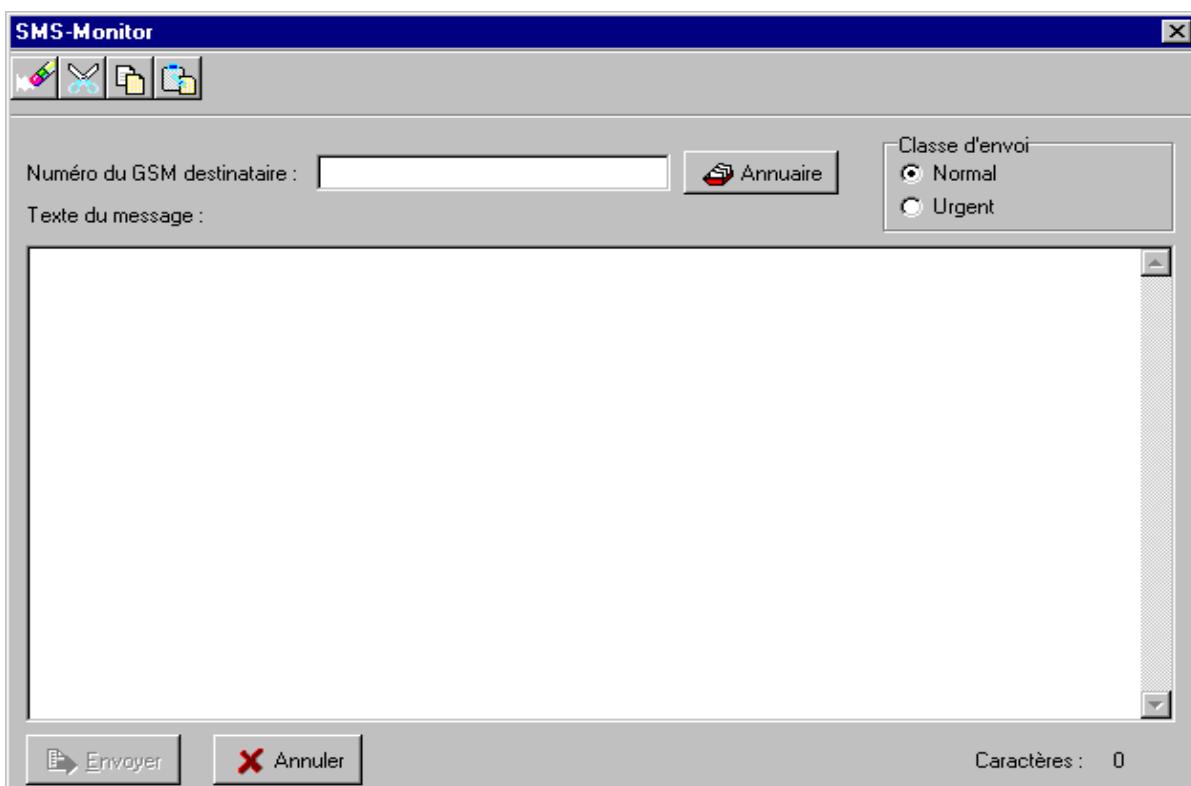
Fermer

His dimension can be adjusted. It is then kept and the nearest display of the window will execute with the same position and the same cutting. The lift allows to go up in the time, to the maximum until 00H00 or up to last starting of the session.

4.2.4. Sending of a message

When the server functions in active fashion, it is possible to write a number of GSM and a message to addresses immediately. To that, click in the toolbar or select the function in the server menu| Sending.

The following dialog box appears :



Communications et VM SAS

Like in all text editor, the buttons above have on the left to fonctions : coming undone, cut, copy and paste.

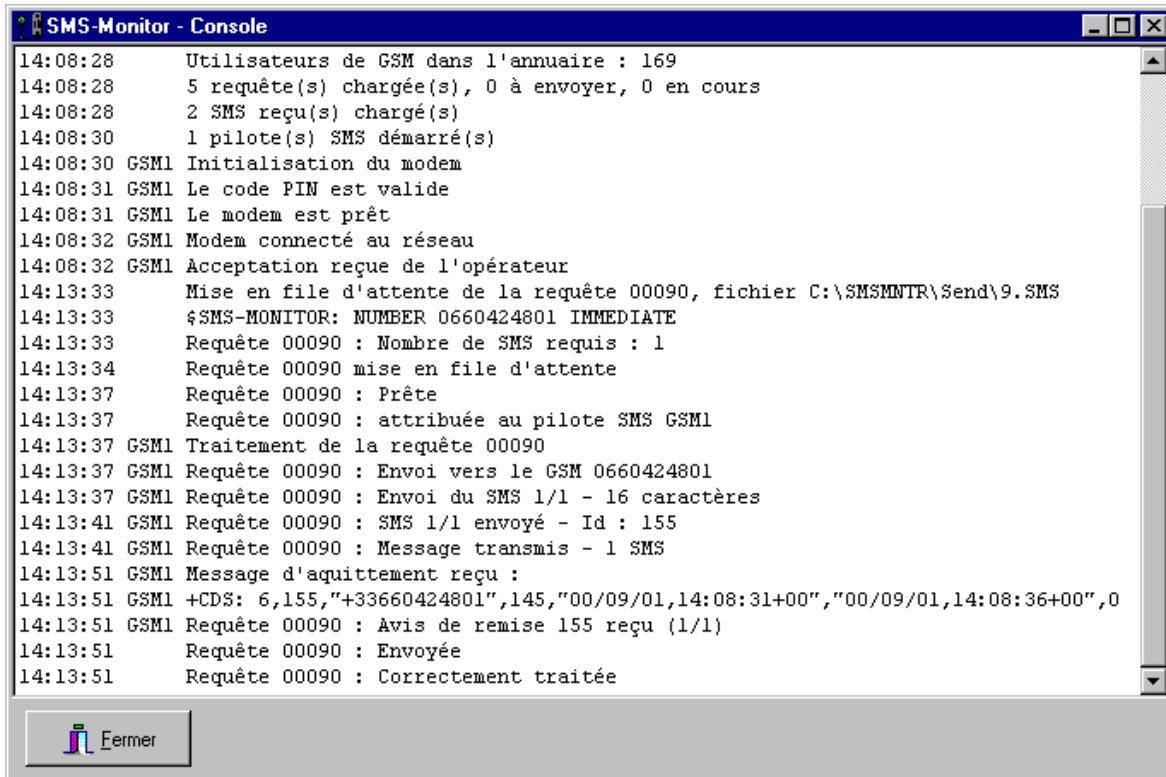
The button « Annuaire » allows to have access to the business-oriented window of the annual of the corresponding GSM (annual, page 71). When this one is displayed, It suffices selecting a recipient in the list and clicking on OK or double clicks on this entry so that the window close again to him and that the number of GSM tally is automatically inserted in the capture area of the GSM number of the recipient of the message.

So that the button « Envoyer » is activated, It fails indicate the GSM number of the recipient and the text to send. with the progression of the striking, the meter below on the right indicates the character number by composing the message.

If more of 160 characters are entered, SMS-Monitor will cut automatically the text in as much SMS that necessary and the [séquencera].

Before clicks on the button « Envoyer », it is possible to select the class of sending. The urgent messages are sent before the normal messages.

As soon as the button « Envoyer » is clicked, the window close again to him and the message is envoyé :



The screenshot shows a Windows-style application window titled "SMS-Monitor - Console". The main area contains a log of events:

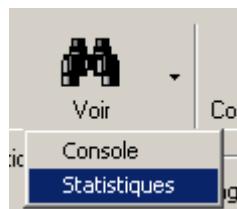
```
14:08:28 Utilisateurs de GSM dans l'annuaire : 169
14:08:28 5 requête(s) chargée(s), 0 à envoyer, 0 en cours
14:08:28 2 SMS reçu(s) chargé(s)
14:08:30 1 pilote(s) SMS démarré(s)
14:08:30 GSM1 Initialisation du modem
14:08:31 GSM1 Le code PIN est valide
14:08:31 GSM1 Le modem est prêt
14:08:32 GSM1 Modem connecté au réseau
14:08:32 GSM1 Acceptation reçue de l'opérateur
14:13:33 Mise en file d'attente de la requête 00090, fichier C:\SMSMNTR\Send\9.SMS
14:13:33 $SMS-MONITOR: NUMBER 0660424801 IMMEDIATE
14:13:33 Requête 00090 : Nombre de SMS requis : 1
14:13:34 Requête 00090 mise en file d'attente
14:13:37 Requête 00090 : Prête
14:13:37 Requête 00090 : attribuée au pilote SMS GSM1
14:13:37 GSM1 Traitement de la requête 00090
14:13:37 GSM1 Requête 00090 : Envoi vers le GSM 0660424801
14:13:37 GSM1 Requête 00090 : Envoi du SMS 1/1 - 16 caractères
14:13:41 GSM1 Requête 00090 : SMS 1/1 envoyé - Id : 155
14:13:41 GSM1 Requête 00090 : Message transmis - 1 SMS
14:13:51 GSM1 Message d'aquittement reçu :
14:13:51 GSM1 +CDS: 6,155,"+33660424801",145,"00/09/01,14:08:31+00","00/09/01,14:08:36+00",0
14:13:51 GSM1 Requête 00090 : Avis de remise 155 reçu (1/1)
14:13:51 Requête 00090 : Envoyée
14:13:51 Requête 00090 : Correctement traitée
```

At the bottom left is a "Fermer" (Close) button.

4.3. Statistics

A window allows to you have access to the statisticses of sending and receipt of the SMS.

To visualize her/it, in the menu or in the toolbars, click on Voir.| Statistics:



A window like this one is displayed then:

	Messages émis	SMS émis	SMS reçus
☐ Total	389	407	117
⊕ 2002	211	211	34
☐ 2003	178	196	83
⊕ Janvier	32	36	15
⊕ Février	26	28	8
⊕ Mars	19	19	12
⊕ Avril	19	22	9
⊕ Mai	11	14	11
⊕ Juin	42	42	8
☐ Juillet	29	35	20
- 08	13	18	8
- 09	6	6	6
- 11	2	3	0
- 15	2	2	2
- 16	2	2	3
- 17	4	4	1

It indicates the number of SMS messengers and received by day, month, year and in all. A click on a square with a more allows to display the dividing up and on a square with a less reduce.

You can use these statistics to verify the SMS invoices that you address your operator.

4.4. Sauvegarde/restauration

After SMS-Monitor has been installed and configured and that It is operational, It is imperious executing a save of the SMS subdirectory-Monitor\DateIndeed, all the information relative to the configuration are saveed in the files of this index. In case of disk crash landing, It will suffice then of re-install the software package since the CD or after see downloaded the last version, then restoring the saveed files.

It must nevertheless contact CVM to obtain the key of use tally to the new disk on which is installed SMS-Monitor.

5. SMS-EXPRESS MONITOR TO WINDOWS

SMS-express Monitor is a Windows application that allows to create you, sending and receiving of the SMS multi-operators. It is intended to be expanded on the station some concerned users (see the following paragraph).

SMS-express Monitor you permit de :

- a) Managing your téléphonique index: creating/eliminate/re-elect/reorganize some entries, or use the one of Outlook express ®,
- b) Managing the courts messages: émissions/receipts from this application as well as the other needs that concern the |applicatifs| mettre in place by your enterprise.
- c) Sending some SMS to the lists of constituted diffusion under Microsoft Excel.

It comprend :

1. a function of creation of the SMS and have an annual, or uses the annual of Outlook express ®,
2. a 'Liste of the SMS broadcasted or in emission, and
3. a 'Liste of the SMS receipt.

DEPLOIEMENT

The communication between the SMS users-express Monitor and the Server SMS-Monitor executes to him through a divided index that can be found on the same computer that this last or on a file servers (registered, especially when the user number is important).

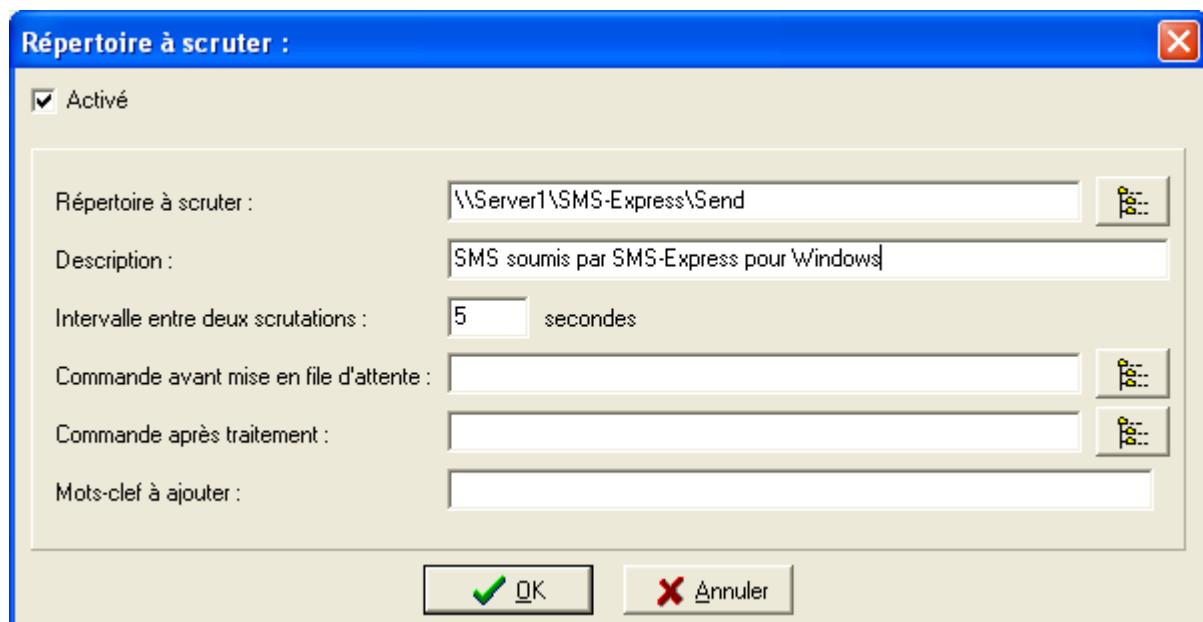
Please therefore begin by create this index and to share it. The more simple is giving the total roll to the users on this index. However, if you wish restrict the rights, please follow the suivante procedure:

- 1) Creating the subdirectories dated, Send and Recv.
- 2) Under the dataed index create one under index to each user that must an application is served naming this subdirectory with the name of |login| Windows (|userid|) of each.
- 3) The users must can create, modify and eliminate the files in their dataed index\|userid| as well as in the Send subdirectory
You can prevent the suppression of the SMS received in not give that the rights of reading in the Recv. index

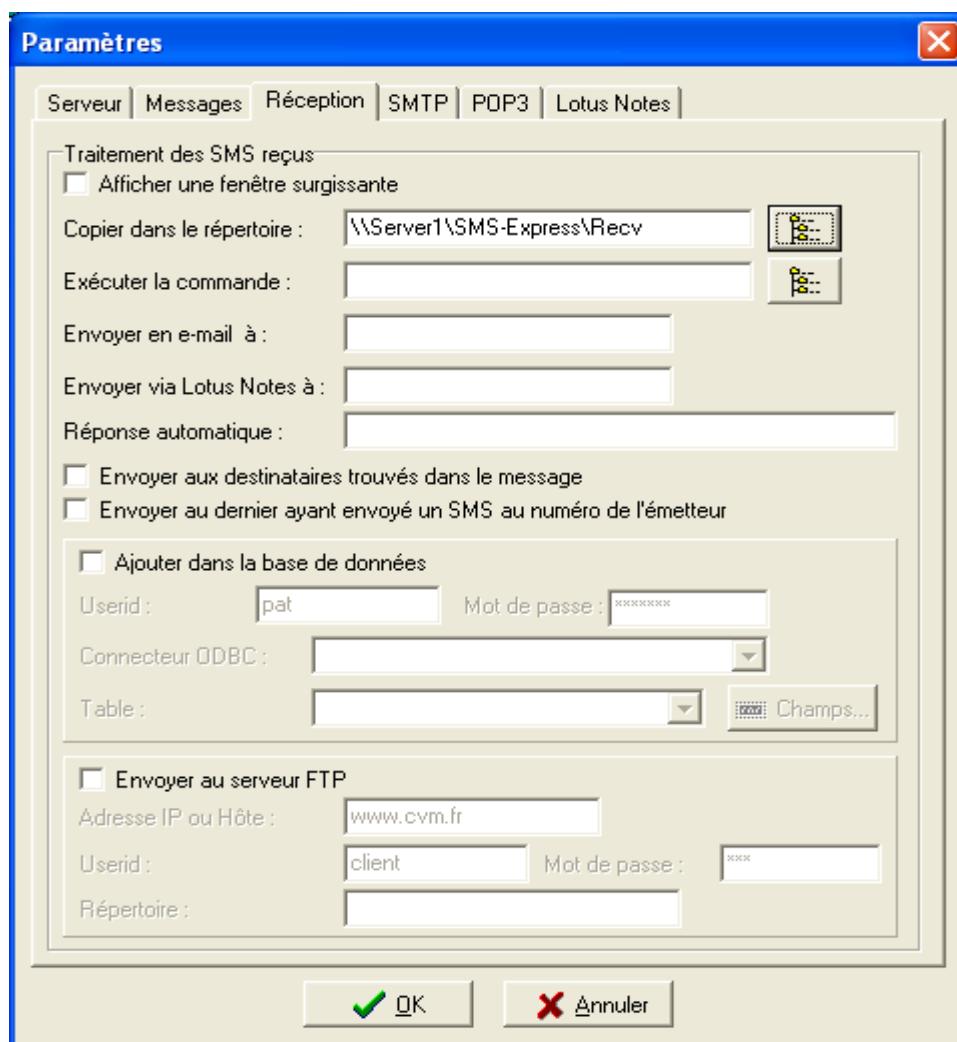
Of course, the Server SMS-Monitor must have the total roll on the index and his subdirectories. It can, like the users, of it has access through a |mappage| or via an UNC.

To the following, consider that the divided index is\\Server1\\SMS-express.

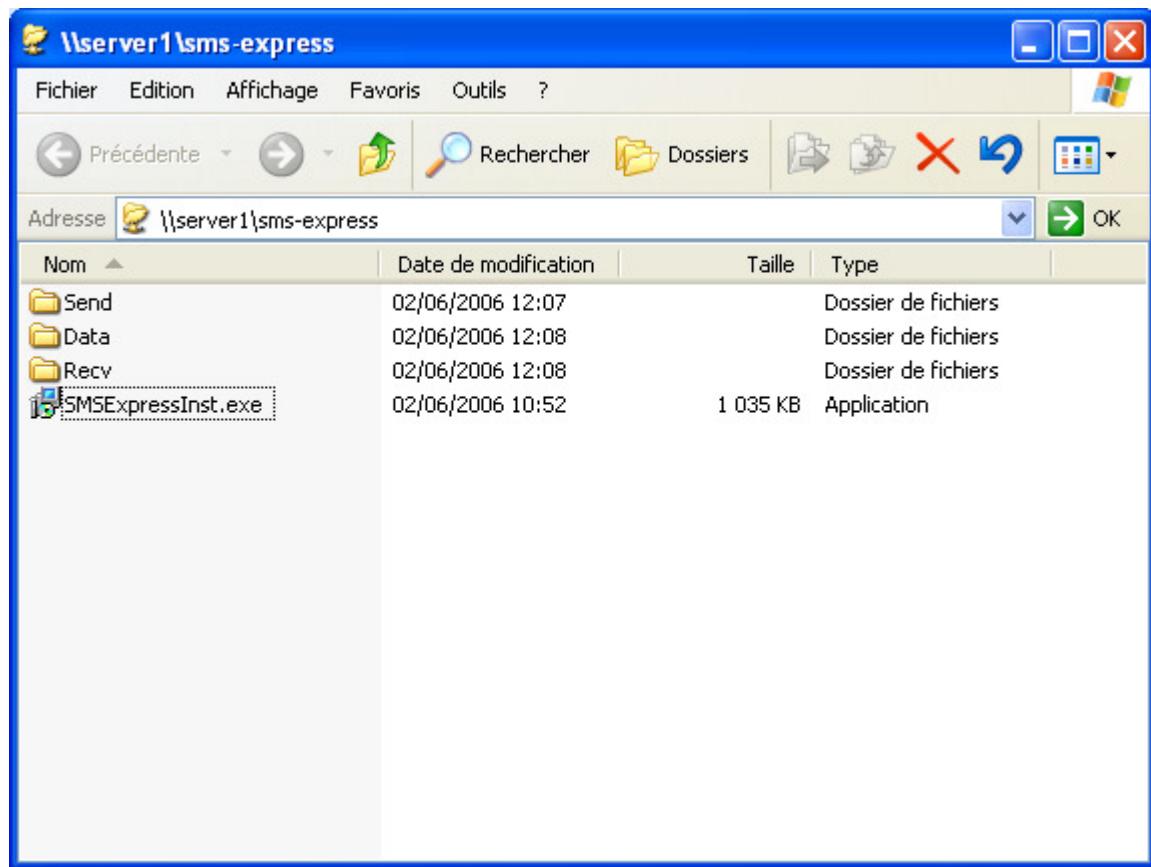
In the configuration of the SMS -Monitor server, must declare you the SEND subdirectory in the list of the subdirectories to scrutinize (see chapter « Répertoires » page 51) :



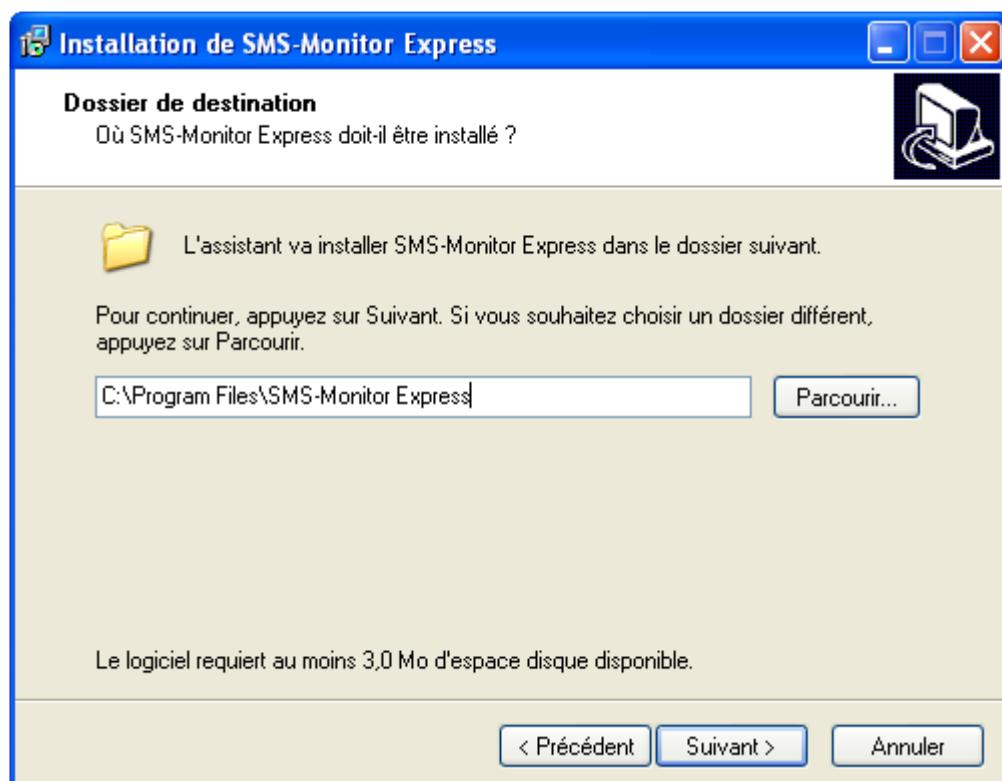
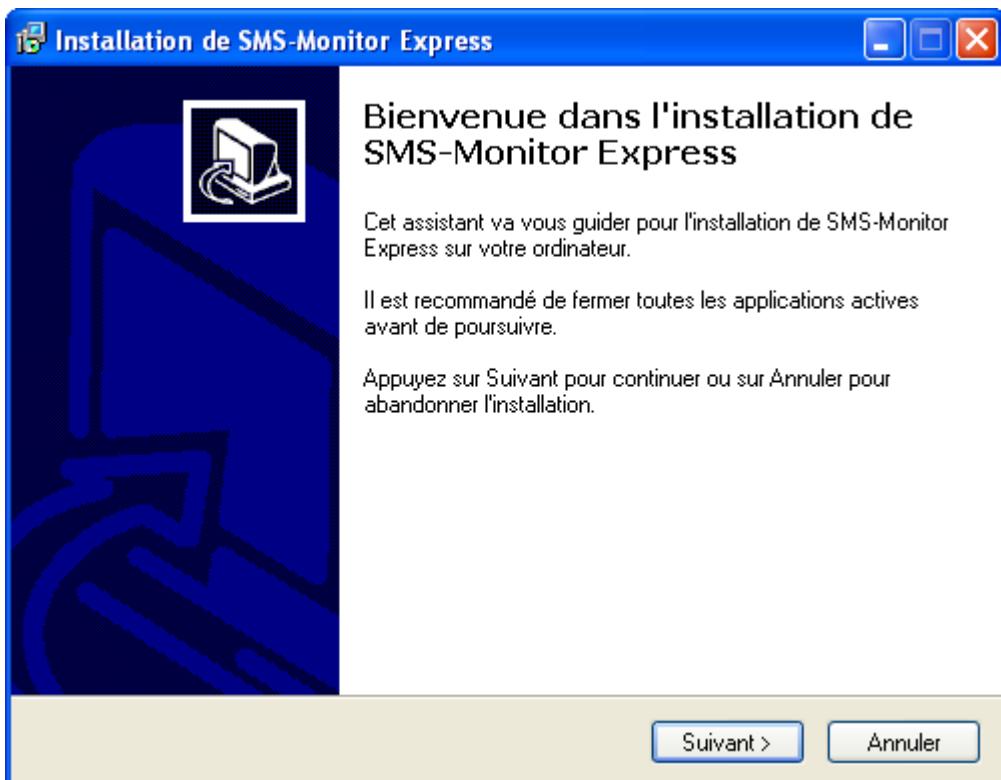
Besides, if you wish that the users see the SMS received, must configure you the server so that It recopies them in the RECV subdirectory (see paragraph « Copie in a répertoire » page 37) :

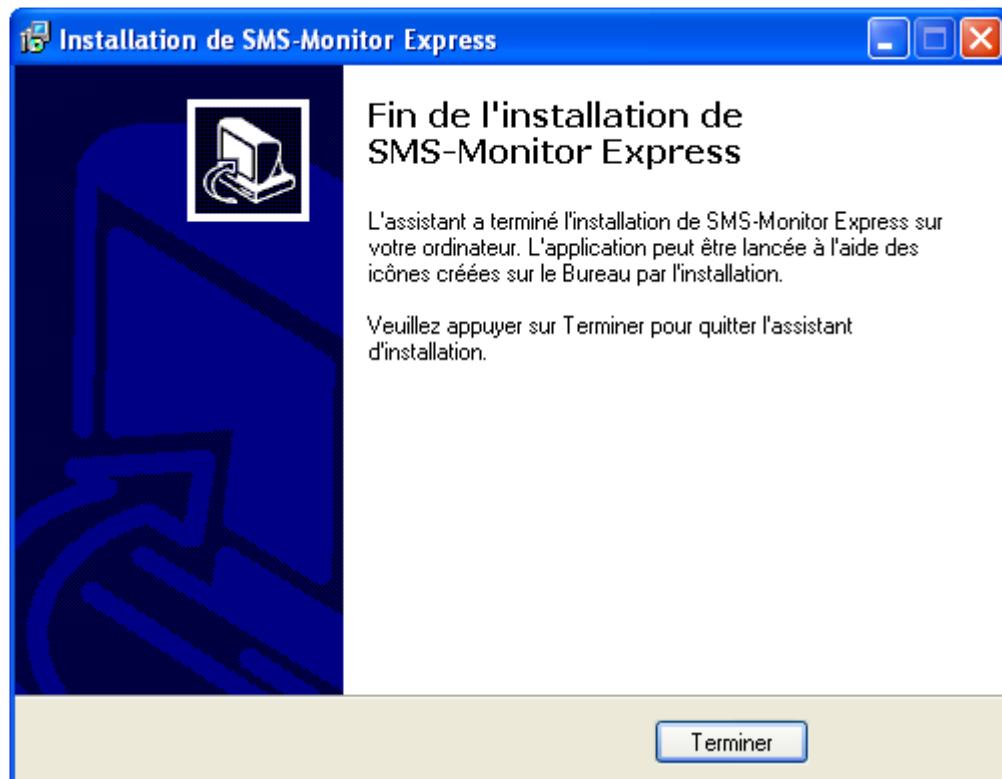
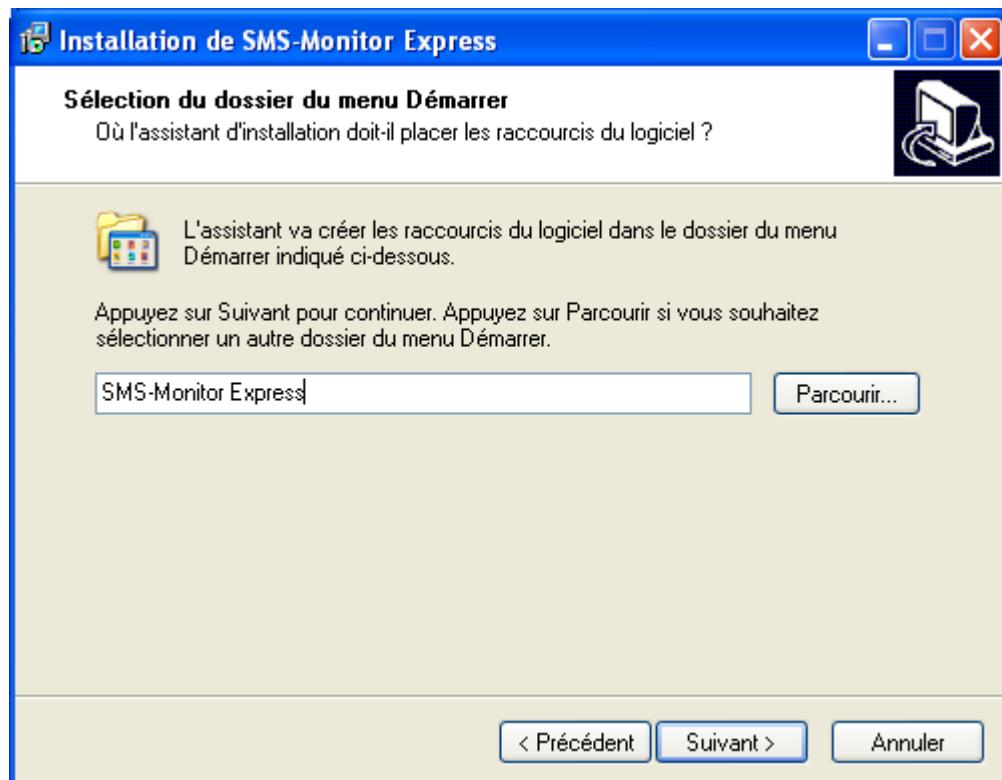


In the index where has been installed SMS-Monitor on the server, will find you the module SMSExpressInst.exe. Copy the in the partagé index:



On the station of the users, It not remains that to have access to the divided index and to execute this module that will install a SMS abridgment-Express Monitor:





5.1. Use

When you enter in the SMS application-express Monitor, the following window affiche :

Communications et VM SAS	SMS-Monitor	Tel : +33 (0)1 43 67 09 03 www.cvm.fr
RCS Paris B 331 758 904 SAS capital 152.449,02Euros 10 Cité Beauharnais - 75011 PARIS		Page 84 sur 189

SMS-Monitor Express

Fichier Aide

Emission | Réception |

Creation	Numéro	Destinataire	Société	Etat	Heure	SMS	Texte
2002/11/15	06 60 42 48	DUMOLEYN,		Attente	12:25:11	1	Test
2002/11/15	06	DUMOLEYN,		Abandonné	12:21:30		Test
2002/11/15	06	VERVEER, J.		Abandonné	11:52:28		Test
2002/11/08	0672774217			Envoyé	19:07:49	1/1	Test 19:07
2002/11/08	0672774217			Abandonné	11:46:26	1/1	Test
2002/11/08	0672774217			Abandonné	11:46:26	1/1	Test 19:03
2002/11/08	0672774217			Envoyé	19:02:16	1/1	Test 19:01
2002/11/08	0672774217			Envoyé	18:57:33	1/1	Test Wavecom 18:57
2002/11/08	0672774217			Transmis	14:55:09	1/1	Test SAGEM.
2002/11/08	0660424801			Transmis	08:31:26	1/1	Test SAGEM
2002/10/17	0672774217	Patrick DUM		Envoyé	14:41:28	2/2	17/10/2002#DUMOLEYN Patrick#Paris 11ème
2002/10/15	0672774217			Envoyé	11:25:48	1/1	Hello
2002/10/15	0672774217	Patrick DUM		Envoyé	11:19:26	2/2	15/10/2002#DUMOLEYN Patrick#Paris 11ème
2002/10/02	0672774217	Patrick DUM		Envoyé	17:08:58	2/2	02/10/2002#DUMOLEYN Patrick#Paris 11ème
2002/09/25	0660424801	Patrick DUM		Envoyé	18:39:54	2/2	25/09/2002#DUMOLEYN Patrick#Paris 11ème

Nombre de messages : 79 SMS-Monitor - Copyright CVM S.A. - Paris, 2002

Communications et VM SAS

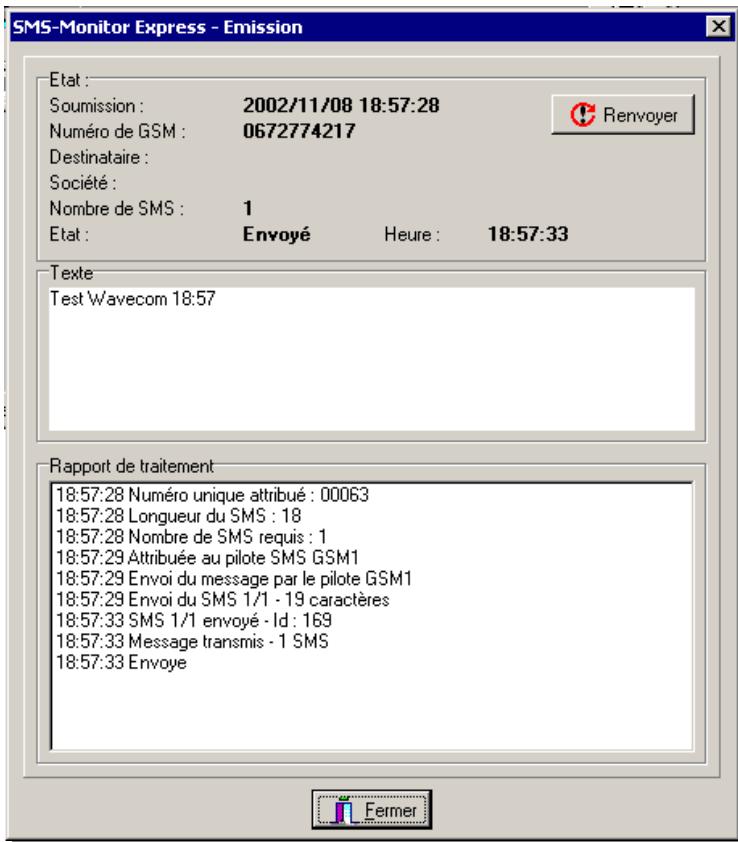
RCS Paris B 331 758 904
 SAS capital 152.449,02Euros
 10 Cité Beauharnais - 75011 PARIS

SMS-Monitor

Tel : +33 (0)1 43 67 09 03
www.cvm.fr
 Page 85 sur 189

In the file menu bar, you find the suivants choice:

- 'New message, you allows to have access directly to the function create a SMS message. In this choice will find you the management of the annual of SMS-express Monitor, the 'Saisie of an address to the request and the Editeur to do the seizure of the SMS.
- 'Voir, allows to have access directly to the SMS message that is mettre in obviousness in the 'Liste of the SMS broadcast or in the 'Liste of the SMS receipt.
- 'Meter of SMS, gives the SMS number that have been treated during a period,
- 'Exporting the list allows to export the list of the SMS displayed (emission or receipt) in an Excel file in CSV format.



using the corresponding tab.

You can have access also to this choice in utilisant le button:
This function is interface in the corresponding chapter.



We present you an example of a window of a SMS treated in émission :

The four buttons allow you to have access to the function:

'Creation of a new SMS' :



'Seeing the yield of a SMS treated in the 'Liste of the SMS broadcast or in the 'Liste of the SMS reçus' :



Consulting the 'Compteur of SMS' :



Consulting l'Aide on line' :



You can, also, have access to the 'Liste window of the SMS receipt

5.1.1. List of the SMS messages broadcasted or in emission

The 'Service SMS-Monitor' allows to send some messages (or text files) that can be mono or multi-SMS.

The screenshot shows the 'SMS-Monitor Express' application window. The menu bar includes 'Fichier' and 'Aide'. Below the menu is a toolbar with icons for new message, open file, save file, and print. A tab bar at the top has 'Emission' and 'Réception' tabs, with 'Emission' selected. The main area is a grid table with the following columns: Creation, Numéro, Destinataire, Société, Etat, Heure, SMS, and Texte. The table lists various SMS entries with their details. At the bottom left, it says 'Nombre de messages : 79'. At the bottom right, it says 'SMS-Monitor - Copyright CVM S.A. - Paris, 2002'.

Creation	Numéro	Destinataire	Société	Etat	Heure	SMS	Texte
2002/11/15	06 60 42 48	DUMOLEYN,		Attente	12:25:11	1	Test
2002/11/15	06	DUMOLEYN,		Abandonné	12:21:30		Test
2002/11/15	06	VERVEER, Je		Abandonné	11:52:28		Test
2002/11/08	0672774217			Envoyé	19:07:49	1/1	Test 19:07
2002/11/08	0672774217			Abandonné	11:46:26	1/1	Test
2002/11/08	0672774217			Abandonné	11:46:26	1/1	Test 19:03
2002/11/08	0672774217			Envoyé	19:02:16	1/1	Test 19:01
2002/11/08	0672774217			Envoyé	18:57:33	1/1	Test Wavecom 18:57
2002/11/08	0672774217			Transmis	14:55:09	1/1	Test SAGEM.
2002/11/08	0660424801			Transmis	08:31:26	1/1	Test SAGEM
2002/10/17	0672774217	Patrick DUM		Envoyé	14:41:28	2/2	17/10/2002#DUMOLEYN Patrick#Paris 11ème
2002/10/15	0672774217			Envoyé	11:25:48	1/1	Hello
2002/10/15	0672774217	Patrick DUM		Envoyé	11:19:26	2/2	15/10/2002#DUMOLEYN Patrick#Paris 11ème
2002/10/02	0672774217	Patrick DUM		Envoyé	17:08:58	2/2	02/10/2002#DUMOLEYN Patrick#Paris 11ème
2002/09/25	0660424801	Patrick DUM		Envoyé	18:39:54	2/2	25/09/2002#DUMOLEYN Patrick#Paris 11ème

The messages that are displayed in this list can therefore be of mono type SMS or multi-SMS.
You can sort the restrained information in the 9 columns clicking on each among them.

The recipient and society columns are not informed that if of the information have been created at seizure level of the used addresses.

The Etat column allows to immediately see in what statute finds to him your SMS message.
Four statutes are available to the level of this List : 'Soumis', "Emission", in waiting, "transmitted", Rééssai, "delivered", "messenger" and "abandoned".

Submitted	indicates that 'SMS-Monitor express submitted a mono message or multi SMS to the 'Service SMS-Monitor'.
Emission	indicates that 'SMS-Monitor express submitted a mono message or multi SMS to the 'Service SMS-Monitor'.
In waiting	indicates that the SMS message that is under treatment and that has been conceived in SMS-express Monitor or from the functions of file handlings outside of 'SMS-Monitor express, is not still taken in account by the 'Service SMS-Monitor'.
Transmitted	indicates that the 'Service SMS-Monitor' has transmitted the SMS message to the operator and that this one has not transmitted any opinion of putting back to the final recipient.
Rééssai	indicates that the re application-trial sending a SMS message that did not could it be since the first trial.
Delivered	tallies to a sending of message multi-SMS towards a recipient. Cand state allows to know the number of SMS already delivered in relation to the SMS total number

Communications et VM SAS

	to send.
Messenger	the SMS message has been handed by the operator to his recipient.
Abandoned	tally to a SMS message that has not been handed to his recipient during the maximum period of time that has been set in the 'Service SMS-Monitor' application that pilots the GSM or when there is an irrecoverable incident at the time of the transmission.

In the column that finds to him after the one that is named statute, you find some icons that allow to easily visualize some specific states of the statute column. It indicates also that the treatments to these SMS messages are terminés :



SMS message messenger

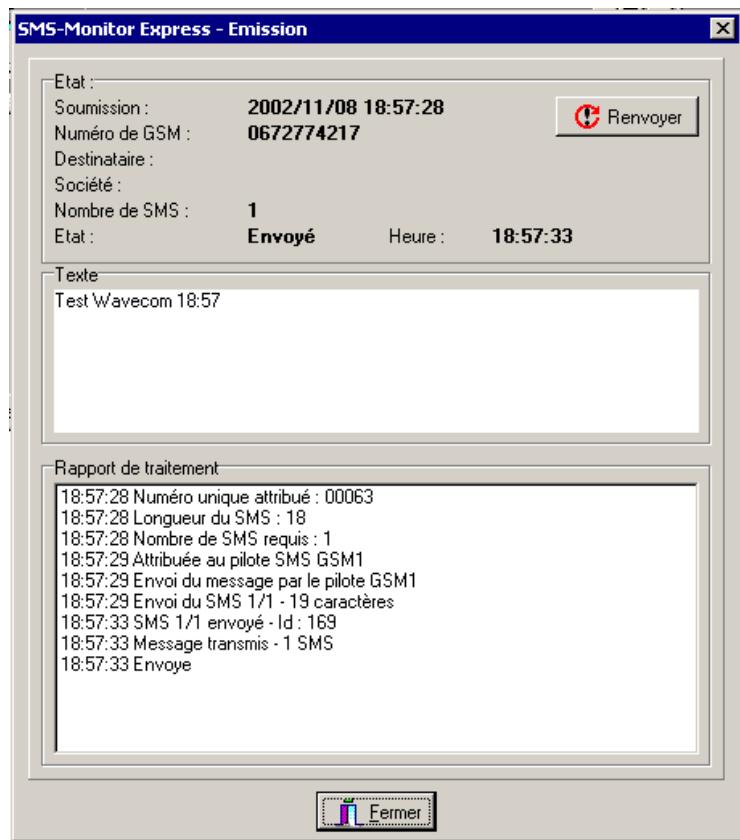


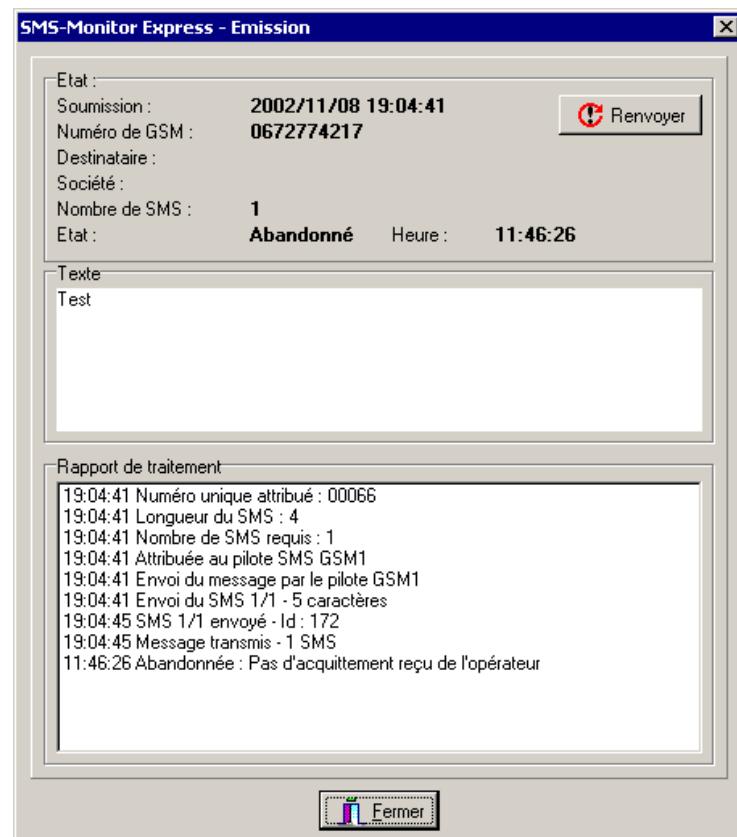
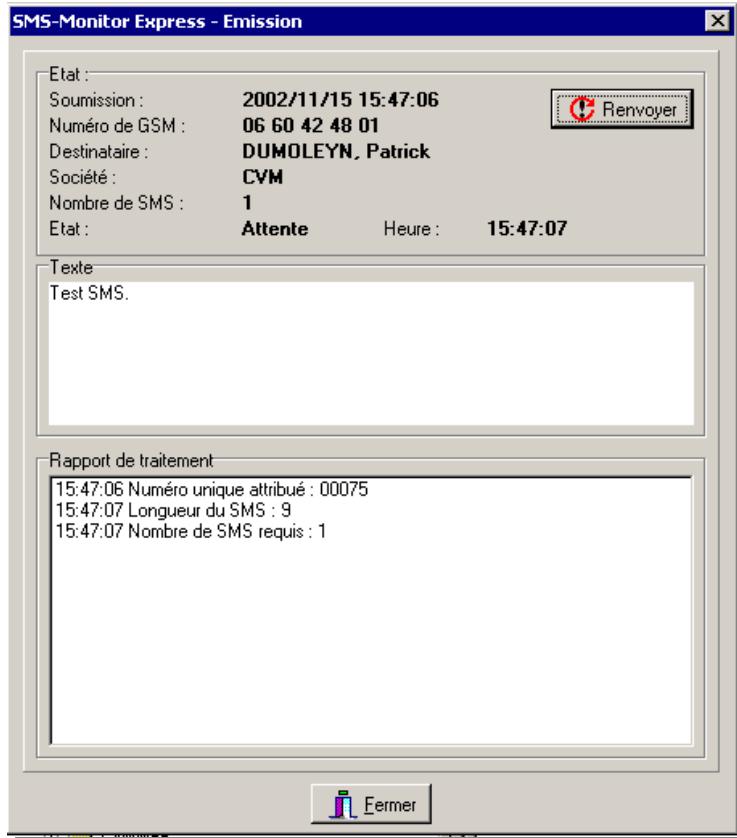
SMS message abandoned

To take acquaintance of the contents of a SMS message and the fastened yield, you click two times with the mouse on the concerned registration in the 'Liste of the SMS broadcast'.

We present you below three examples :

The text column contains the first turn of the SMS message messenger or under treatment.

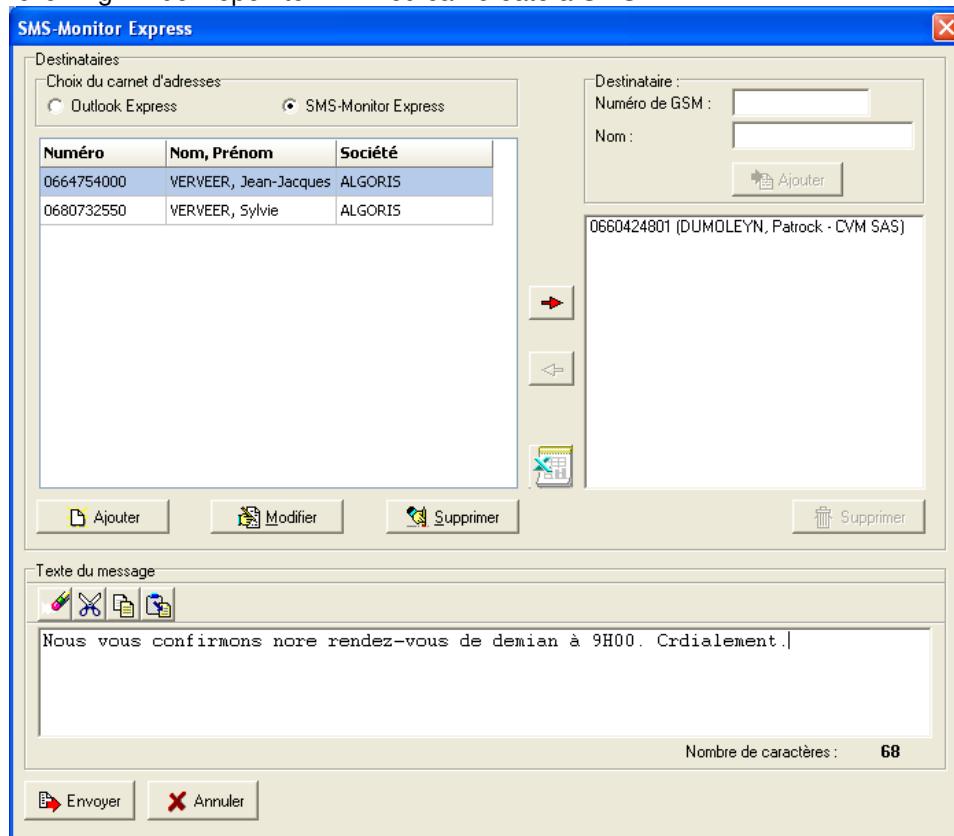




5.1.2. Creation of a SMS message

Nombre de caractères : 53

When you use the 'Nouveau' function message in the menu file or the button, the following window open to him. You can create a SMS



You have not more than to create the text to your SMS message and to define the addresses of your corresponding.

The following chapter is consecrated to the creation and the selection of the addresses of the GSM to reach.

A SMS message, normally, must do to the maximum 160 characters.

You will observe below the 'Texte' window of the message the meter of characters that you guide in this that concerns this domain.

Nota : a SMS message created with 'SMS-Monitor express' can more do 160 characters. In this case, the 'Service SMS-Monitor', will cut automatically the SMS message that has been confided in message n of 160 characters without cutting a word.

Each of the SMS generated will be numbered of '1/n' until 'n/n'.

In the 'Liste of the SMS messages broadcasted or in emission', it there aura an only entry that will regroup this outfit of SMS.

If this SMS message is addressed to another application SMS-Monitor, this one will reconstitute automatically the message (file) to the arrival that recipient benefits of the message under his forms original.

To help you to the creation of the text of the SMS, some functions stamp word processor is disponibles :

	Annuling the last modification
--	--------------------------------

Communications et VM SAS

RCS Paris B 331 758 904
SAS capital 152.449,02Euros
10 Cité Beauharnais - 75011 PARIS

SMS-Monitor

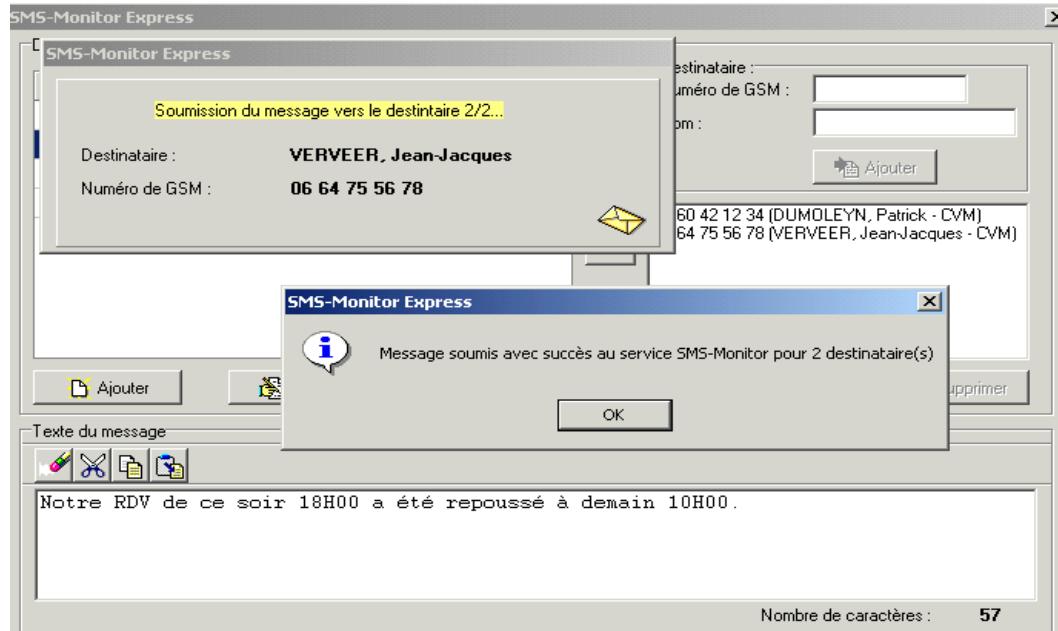
Tel : +33 (0)1 43 67 09 03
www.cvm.fr
Page 90 sur 189

	Cutting the selected text
	Copying the selected text
	Pasting the selected text

To send your SMS message, and therefore confides it to the 'Service SMS-Monitor', that will address to the selected recipients, you push on the bouton :



As soon as clicked on you this button, a window of progress you will indicate the submission of the SMS towards the different recipients. When all the SMS will have been treated, a dialog box you will informer :



The 'Liste of the SMS messages broadcasted or in emission in real time by the 'Service SMS-Monitor'. You see perform evolutions the status of your SMS message.

The treatment of the addresses of your corresponding is explained in the following chapter.

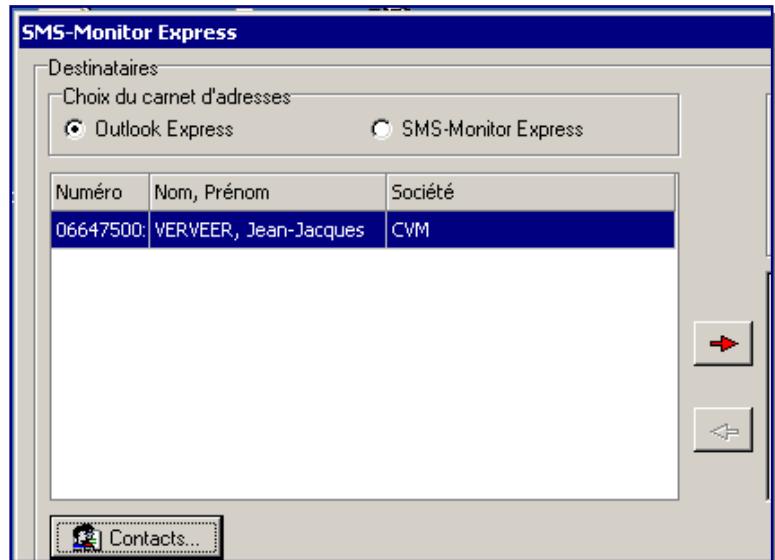
5.1.3. Management of the address GSM of your corresponding

Three functions are disponibles :

1. The annual of the SMS application-express Monitor or the one of Outlook express ®,
2. The seizure of an address to the request.
3. Loading of a list of diffusion since an Excel file.

When you use SMS-express Monitor, must define you the type of address books that you go habitually use.

To that, before send some SMS messages, must check you in the part of the window denominated 'Choix of the address books the one that you wish use.



You check the radio button Outlook express ® or SMS-express Monitor. The definite addresses in the an or the other of the address books will be automatically displayed in the window presented below. You won't have more that to choose the recipients of your SMS messages.

5.1.3.1. Annual of the SMS application-express Monitor

The SMS application-express Monitor allows to you manage your annual.

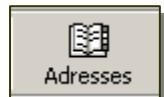
You pouvez :

- Creating the address of an interlocutor,
- Eliminating,
- Modifying,
- Sorting the rubrics of the notebook of address to the level of all the columns.

5.1.3.2. Outlook annual express ® and SMS-express Monitor

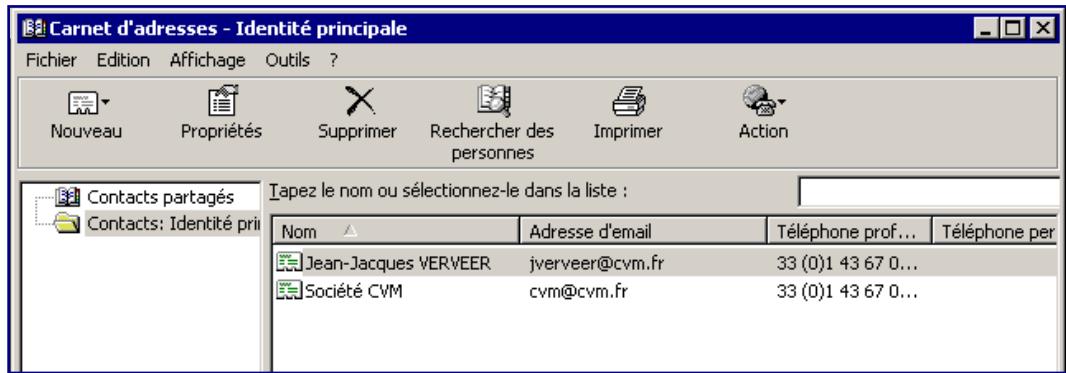
When you use the address books of Outlook express ®, must first of all create you the addresses of your corresponding under this environment.

To that, click on you the bouton :



The 'Carnet window of addresses - identity principal is displayed. You have not more that to create the pegs of your corresponding.

We present you below two examples of the 'Propriétés peg of CVM society.



Propriétés de Société CVM

Résumé | Nom | Domicile | Bureau | Personnel | Autre | NetMeeting | Identifications numériques

Résumé des informations sur ce contact

Nom : Société CVM
 Adresse de messagerie : cvm@cvm.fr
 Téléphone personnel :
 Radiomessagerie :
 Téléphone mobile : 06 60 42 48 01
 Page Web (domicile) :

Propriétés de Société CVM

Résumé | Nom | Domicile | Bureau | Personnel | Autre | NetMeeting | Identifications numériques

Entrez ici des informations supplémentaires sur ce groupe.

Rue :
 Ville :
 Département :
 Code postal :
 Pays/Région :

Téléphone :
 Télécopie :
 Tel. Mobile : 06 60 42 48 01

Par défaut

Page Web :

Communications et VM SAS

RCS Paris B 331 758 904
 SAS capital 152.449,02Euros
 10 Cité Beauharnais - 75011 PARIS

SMS-Monitor

Tel : +33 (0)1 43 67 09 03
www.cvm.fr
 Page 93 sur 189

Seizure of an address to the request

When you are in the window of constituting of a SMS, can write you an address outside of the annual function.

To that, proceed a suivante making:



Enter in the part of the screen that the title is recipient, the coordinateses of your interlocutor. Then clicks on the button that your new information is occupied in account.

They will be automatically turned in the concernée window:

Destinataire :
Numéro de GSM : 0680735533
Nom : Dupont Pierre
Ajouter

Destinataire :
Numéro de GSM :
Nom :
Ajouter
0680735533 (Dupont Pierre)

5.1.3.3. Selection of an or several address GSM in the annual

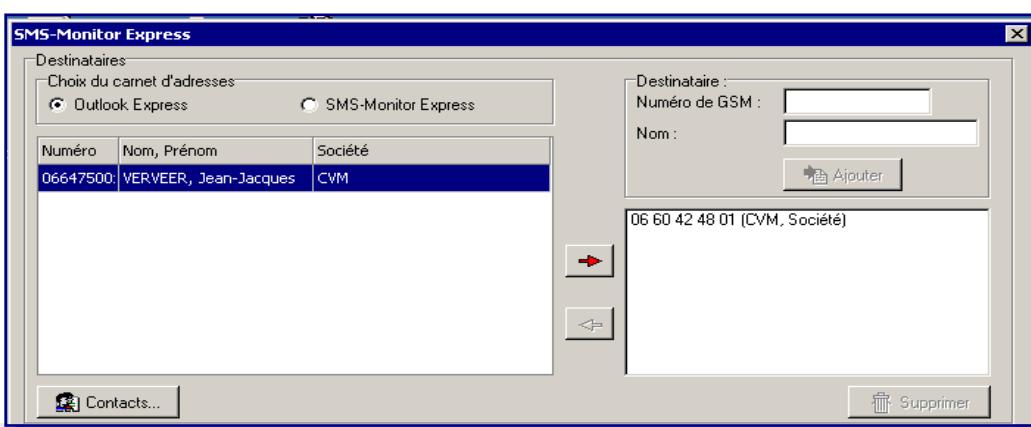
to the warped thing of this screen, the contents of the annual is displayed.

The presented annual is the one of Outlook express ®, is the one of SMS-express Monitor, follow the option that kept you.

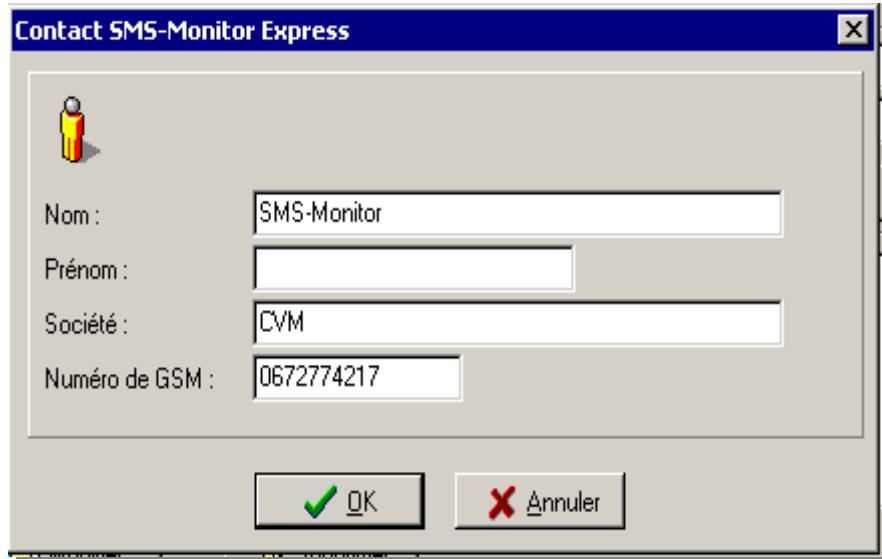
You can modify the breadth of the Christian name and society number, name columns, if you wish it. In the same way, can sort you the contents of each column clicking on the definition of the concerned column.

To add, modify or eliminate the restrained addresses in this annual, use the corresponding buttons.

The format of the file of this annual is a CSV type. That permits an export or an easy importation of the datas to manage.



Will find you below, an example of a peg tally one - address GSM :



The following buttons allow to add or eliminate the addresses of the recipients in the list of the GSM numbers to reach.

To add an or several address GSM in this list, you select them and use the button



To come off an address of this list, you select the concerned registration and you [apuuyez] on the button



To eliminate a created address from the new zone recipient, use the button



The boutons :

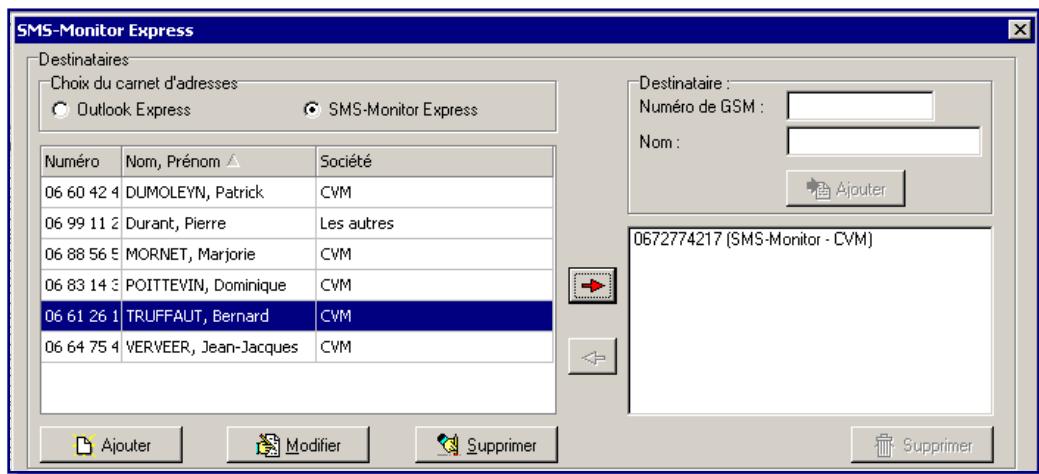


et :



are not available that with

The SMS annual-express Monitor.



Communications et VM SAS

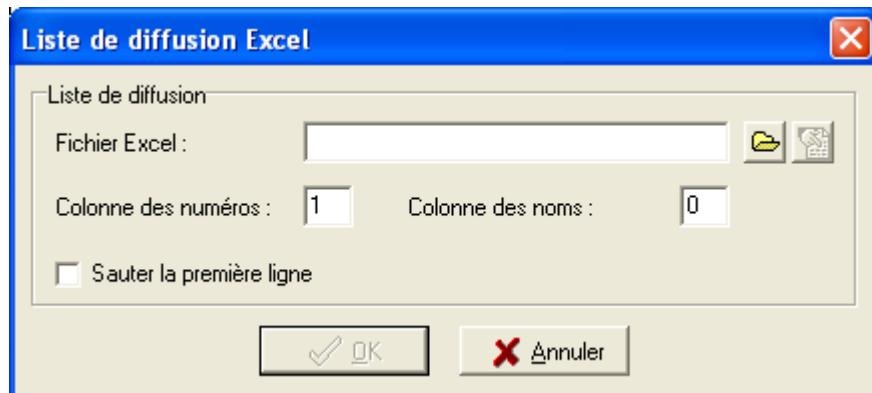
RCS Paris B 331 758 904
SAS capital 152.449,02Euros
10 Cité Beauharnais - 75011 PARIS

SMS-Monitor

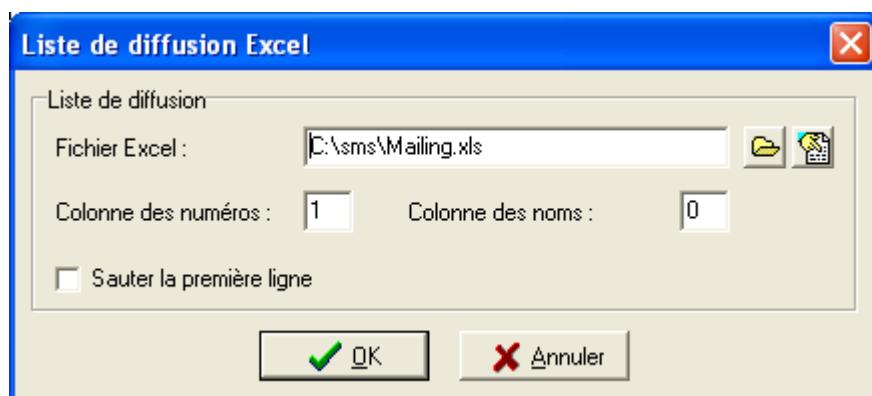
Tel : +33 (0)1 43 67 09 03
www.cvm.fr
Page 95 sur 189

5.1.3.4. Selection of a list of Excel diffusion

Clicking on the button the following window ouvre :



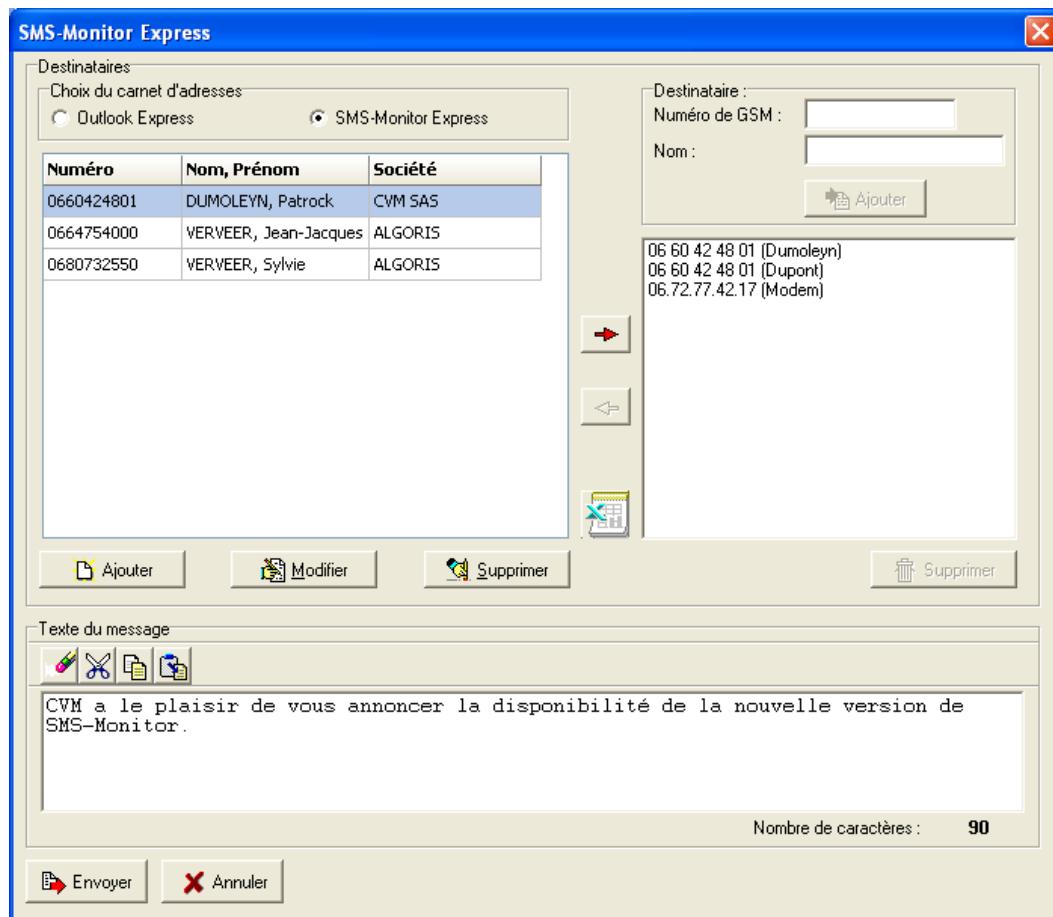
It fails first of all select the Excel file (.XLS) contain the list of diffusion. Once informed, the button all on the right allows to open it.



It fails indicate the number of the column in which is found the GSM numbers of the recipients. If another column contains their names, It is registered indicating it also. The follow-up of the treatments facilitated .

If the first line of the Excel file contains the names of the columns, check the hut « Sauter the first ligne ».

Clicking after on « OK » to close again the window. The list of the extracted recipients of the Excel file is then displayed in the window of distractee of the message.



If the first line of the list of distribution contains the title of the columns, check the corresponding hut. The SMS generated can contain some variable information. Indeed, in this case, the titles of the columns are used like of the variable names that the contents be informed at the time of the submission of the SMS.

For example, if the titles of the columns are "name", "Christian name", "GSM", "remnant". and that the text of the SMS is:

\$Prénom\$ \$Nom\$ Mr., the remnant of your account is of \$Solde\$.
Thanks

The contents of the columns 1 , 2 and 4 will be extracted in each line to inform successively the variable \$Prénom\$, \$Nom\$ and \$Solde\$.

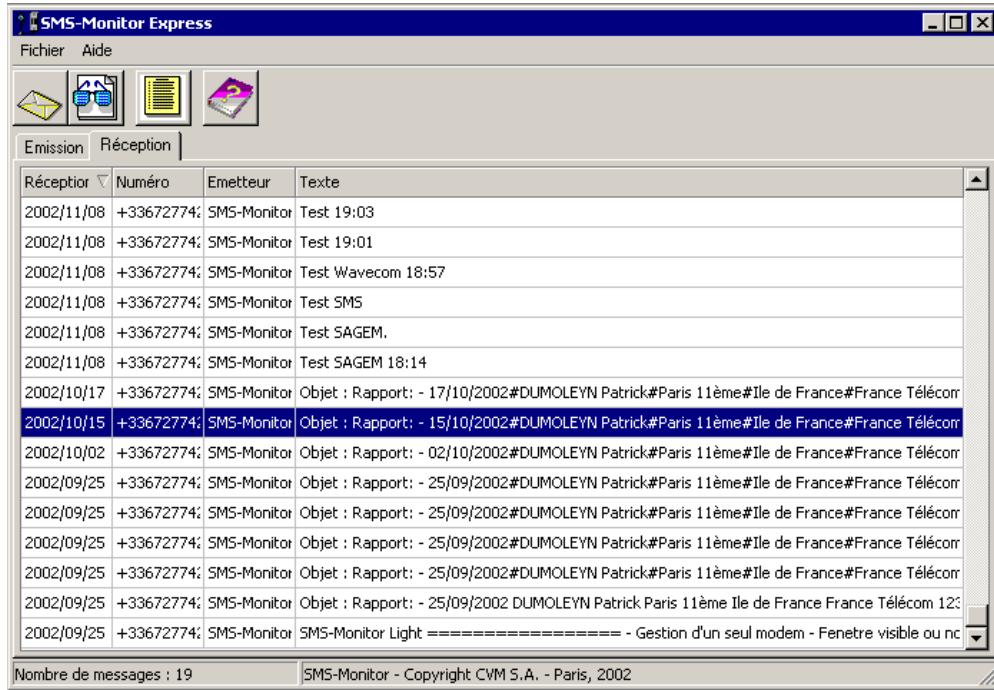
That is the characters \$ that precede and finish the name that allow to determine the name of the variable.

Attention: all the columns must contain a title in this case.

5.1.4. List of the SMS messages received

In this list can you find of the messages that contain an or several SMS.

The
'Service
SMS-
Monitor'
allows to
receive
some



messages (or text files) that can be mono or multi-SMS (case of an undertaken installation that uses to his itinerant or to his server of SMS central the SMS application-Monitor).

You can sort the restrained information in the 4 columns clicking on each of elles :

- The number column contains the number of the GSM of the issuer that is well stocked by the operator.
- The Issuer column is not informed that if a peg concerning this issuer has been created in the annual of 'SMS-Monitor express'.

Communications et VM SAS



- The text column contains the first turn of the SMS message messenger or under treatment.

To take acquaintance of the contents of a SMS message and the fastened, double yield-click with the mouse on the concerned registration in the 'Liste of the SMS broadcast.

We present you an example of a SMS message, mono SMS reçu :

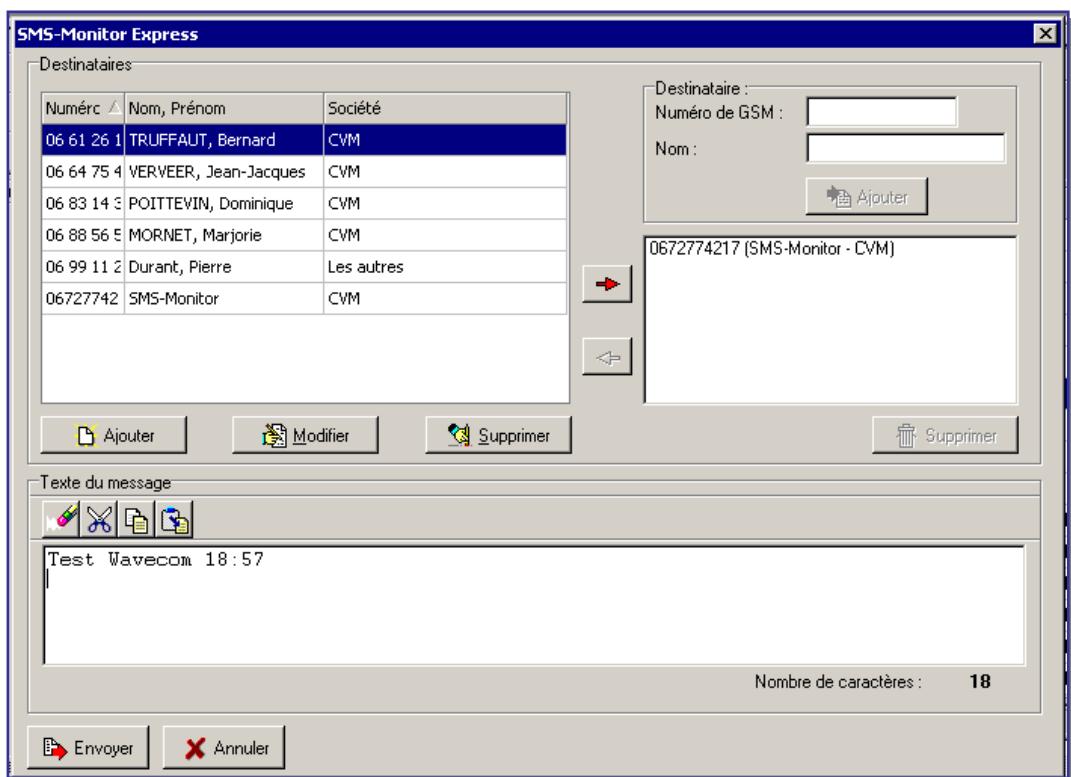
If several SMS constitute the SMS message received, the texts will be automatically regrouped by the 'Service SMS-Monitor' and presented in the text window.

You can answer directly to your interlocutor using the bouton :

From that time onwards, the 'Création window of a SMS message open to him, the zone of the number of the GSM to reach is meadow-informed and the text of the SMS received is copied.

You have not more that to formulate your answer and send your SMS message. You can also add again recipients.

If the SMS message that have receiveded you contained an addresses e-mail, can keep her/it you that the application receiving your SMS message can if necessary treat this inquiry. For example, the 'serveur SMS-Monitor' application stretch this inquiry and addresses automatically the SMS message received towards the recipient of carrying trade when the system is inserted in a SMTP carrying trade context.



5.1.5. Meter of operation of the 'Service SMS-Monitor'

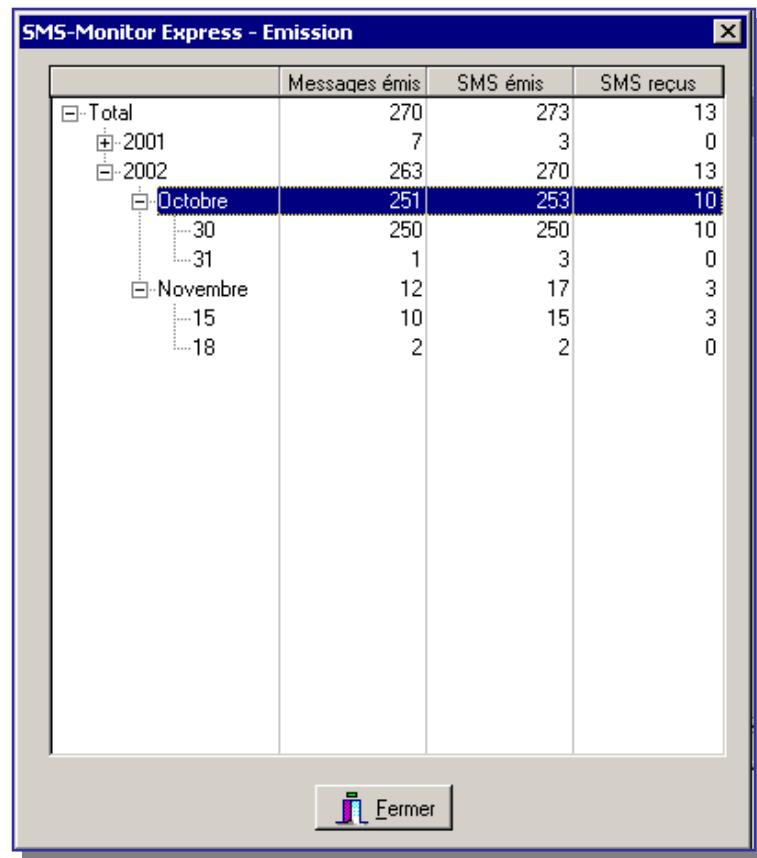
The 'Service SMS-Monitor' application maintains in real time a meter a sending of the SMS messages.

CVM enclosed in the 'SMS-Monitor' module express a window by describing these datas.

They are available under the form of a whole or to a definite period (year day, month).

This allows to you verify this that concerns this domain the number of SMS that invoiced you by your operator.

Nota : All SMS handed to the operator you are invoiced (same when there is a no handed to the final recipient).



6. SMS OPERATEUR APPLICATION-MONITOR VIA NAVIGATOR

This application allows to follow through an Internet navigator (Internet Explorer, Firefox, etc) the outfit of the executed treatments by the SMS -Monitor server.

The authorized people can consult to all moment :

- The follow-up in real time of the SMS messengers.
- The SMS received.

The authorized people can also to all moment réaliser of the research on the SMS messengers and received or classify some SMS messengers and received in of the backs.

Search of the SMS messengers:

- To a date (I want to all the SMS messengers the 01/02/2008)
- Per person.
- By number of SMS.

Search of the SMS received:

- To a date (I want to all the SMS received the 15/01/2008)
- By contents.
- By number of SMS.

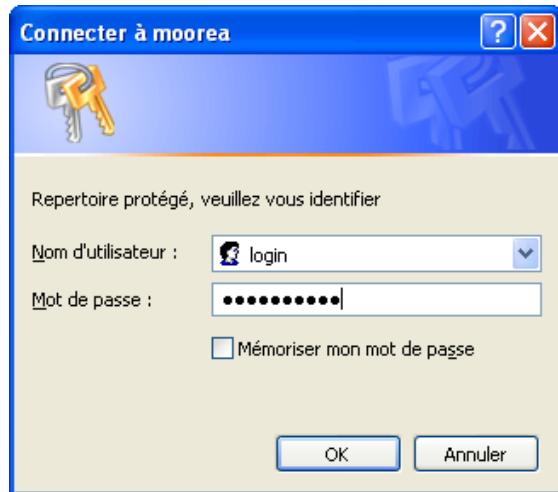
6.1. Use of the operator application SMS-Monitor

6.1.1. Access to the application

Use the address that we have handed you. It often composes to him of the suivante making:

http://nomduserveurweb/sms-monitor/sms-monitor.htm

A request of authentication is presented, write a name of user and the password by permitting the use of this application.



After authentication (see the chapter « Installation » more far) the page below proposed you.

6.1.2. Follow-up of the SMS messengers

6.1.2.1. Presentation of the follow-up of the SMS messengers

You can consult real time the follow-up of the SMS messengers.

Date	Heure	SMS	De	Pour	Société	Etat	Objet	Nombre
01/02/2008	09:31:54	0612235686	Rage Jean	KrolSoft	File d'attente	Rendez-vous confirmé	1	
01/02/2008	09:31:54	0622671086	Ostik Diane	Plostation	Terminé	Annulation rendez-vous	1	
01/02/2008	09:31:54	0622671086	Bout Carie	Tete Maude	Terminé	Rapport du 15/12/2007	1	
01/02/2008	09:31:54	0622671086	Auchon Paul	CVM	Terminé	Visite Client	1	
01/02/2008	09:31:54	0622671086	Saitpasvrai Dick	Krol Eric	Traitement	Avis Consommateur	1	

The follow-up of the SMS messengers displays the following information:

- Date of sending of the SMS.
- Hour of sending of the SMS.
- Number to whom we dispatched the SMS.
- Sender of the SMS.
- Recipient to whom we dispatched the SMS (if informed at the time of the sending)
- Society to whom we dispatched the SMS (if informed at the time of the sending)
- Etat of the SMS (waiting line, treatment, finished, messenger, error)
- Object of the SMS(if informed at the time of the sending)
- Number of SMS used to send the text.

By default the follow-up is sorted on the date and hours of emission of the SMS by descending command (more recent to the more elders), can change you the command of sorting clicking on the arrow available at rubric level.

▲ Sorting growing of the follow-up according to the selected column

▼ Sorting decrease of the follow-up according to the selected column

6.1.2.2. Descriptive of the SMS messengers

Clicking on the number of SMS or on the state you have a descriptive complete of the SMS messenger or in error.

The screenshot shows the 'SMS-Monitor' application running in a Windows Internet Explorer browser window. The title bar reads 'SMS-Monitor - Windows Internet Explorer'. The address bar shows the URL 'http://localhost/sms-monitor/sms-monitor.htm'. The menu bar includes 'Fichier', 'Edition', 'Affichage', 'Favoris', 'Outils', and a question mark icon. The toolbar contains icons for home, search, and print. The main content area is titled 'SMS-Monitor' with a blue sky background. On the left, there is a sidebar with a tree view containing 'SMS-Monitor' (selected), 'SMS envoyés', 'SMS reçus', and 'Gestion des dossiers'. Below this are two expandable sections: 'Dossiers Envoyés' (Client) and 'Dossiers Reçus' (Fournisseur). The right side of the screen displays a mobile phone icon with a signal and a cloud icon above it. To the right of the icons is a detailed list of SMS message properties:

Etat	File d'attente
De	Rage Jean
Pour	
Société	KrolSoft
Date	01/02/2008
Heure	09:31:54
SMS	0612235686
Object	Rendez-vous confirmé
Message	Rendez-vous confirmé
Nombre de SMS	1
Rapport	
Mots clefs	

6.1.2.3. Search on SMS messengers

You can search for the SMS messengers.

Please display the search, fill the criterions of search and validate your search.

The screenshot shows the SMS-Monitor application running in Internet Explorer. The interface is in French. On the left, there's a sidebar with icons for 'SMS envoyés', 'SMS reçus', and 'Gestion des dossiers'. The main area has a search form with fields for 'Date' (set to 01/02/2008), 'SMS' (set to 0622671086), and 'De' (set to Client). Below the search form is a table showing four SMS records. The table has columns: Date, Heure, SMS, De, Pour, Société, Etat, Objet, and Nombre. The records are:

Date	Heure	SMS	De	Pour	Société	Etat	Objet	Nombre
01/02/2008	09:31:54	0622671086	Ostik Diane		Plostation	Terminé	Annulation rendez-vous	1
01/02/2008	09:31:54	0622671086	Bout Carie	Tete Maude		Terminé	Rapport du 15/12/2007	1
01/02/2008	09:31:54	0622671086	Auchon Paul		CVM	Terminé	Visite Client	1
01/02/2008	09:31:54	0622671086	Saitpasvrai Dick	Krol Eric		Traitement	Avis Consommateur	1

In the example above, we search for all the SMS sent to 0622671086 heures.

6.1.3. SMS received

6.1.3.1. Presentation of the SMS received

You can consult the SMS received.

The screenshot shows a Windows Internet Explorer window titled "SMS-Monitor - Windows Internet Explorer". The address bar shows the URL "http://localhost/sms-monitor/sms-monitor.htm". The menu bar includes "Fichier", "Edition", "Affichage", "Favoris", "Outils", and a question mark icon. The toolbar includes icons for "SMS-Monitor", "Actualiser" (refresh), "Afficher Recherche" (search), and "Supprimer les SMS sélectionnés" (delete selected messages). The main content area is titled "SMS-Monitor". On the left, there is a sidebar with three sections: "SMS-Monitor" (with "SMS envoyés", "SMS reçus", and "Gestion des dossiers"), "Dossiers Envoyés" (with "Client"), and "Dossiers Reçus" (with "Fournisseur"). The main table displays five received SMS messages, each with a checkbox, date, time, sender number, and subject. The table is sorted by date in descending order. The first message is from "Gestor" asking for information. The second message is about a product price. The third is a meeting confirmation. The fourth is a client command. The fifth is a meeting cancellation. The table has a header row with columns for Date, Heure, SMS, and Objet. The footer of the table area shows "Enregistrements 1 à 5 sur 5". At the bottom of the page, there is a large red "X" button labeled "Supprimer les SMS sélectionnés" and another footer stating "Enregistrements 1 à 5 sur 5".

	Date	Heure	SMS	Objet
<input type="checkbox"/>	31/01/2008	10:28:30	0623252421	Demande d'information pour client Gestor
<input type="checkbox"/>	31/01/2008	10:25:20	0622671086	Prix du produit Sabien : 120 euros
<input type="checkbox"/>	31/01/2008	10:00:00	0622671086	Réunion terminée
<input type="checkbox"/>	30/01/2008	09:00:00	0623625223	Commande client Plostation OK
<input type="checkbox"/>	30/01/2008	08:30:00	0636323534	Réunion annulée

The screen of the SMS received poster the following information :

- Date of receipt of the SMS.
- Hour of receipt of the SMS.
- Number of the sender of the SMS.
- Object of the SMS

By default the SMS received are sorted on the date and hours of receipt by descending command (more recent to the more elders), can change you the command of sorting clicking on the arrow available at rubric level.

- ▲ Sorts growing of the follow-up according to the selected column
- ▼ Sorts decrease of the follow-up according to the selected column

6.1.3.2. Descriptive of the SMS received

Clicking on the number of SMS, you have a descriptive complete of the SMS received.

The screenshot shows the SMS-Monitor interface in Internet Explorer. On the left, a sidebar menu includes 'SMS-Monitor' (selected), 'SMS envoyés', 'SMS reçus' (selected), and 'Gestion des dossiers'. Below this are 'Dossiers Envoyés' (Client selected) and 'Dossiers Reçus' (Fournisseur selected). The main area displays a blue mobile phone icon with a signal. To its right, details of a received SMS are shown: Date: 31/01/2008, Heure: 10:28:30, SMS: 0623252421. The message content is: 'Message Demande d'information pour client Gestor'.

6.1.3.3. Search on SMS received

You can search for the SMS received.

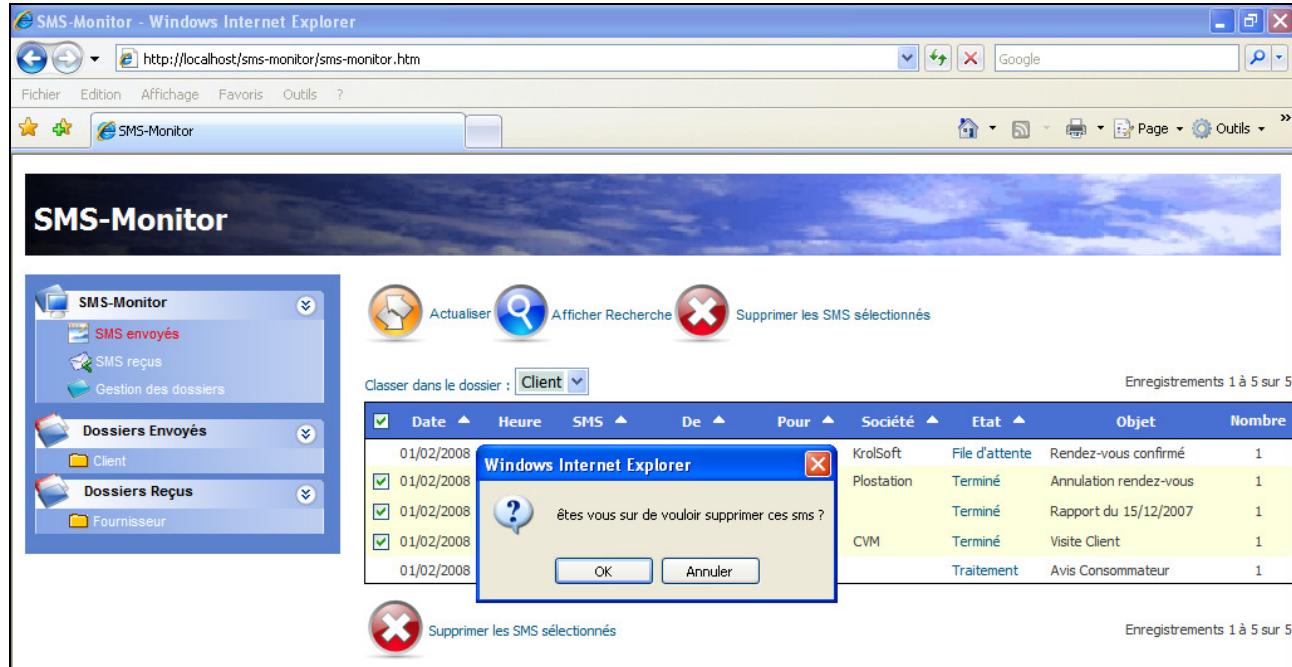
Please display the search, fill the criterions of search and validate your search.

The screenshot shows the SMS-Monitor interface in Internet Explorer. The search criteria on the right are: Date (31/01/2008), SMS (0622671086), and Contenu (empty). The results table has columns: Date, Heure, SMS, and Objet. It lists two entries: '31/01/2008 10:25:20 0622671086 Prix du produit Sabien : 120 euros' and '31/01/2008 10:00:00 0622671086 Réunion terminée'. Both rows have a red 'X' icon at the beginning. At the bottom, there is another 'Supprimer les SMS sélectionnés' button.

In the example above, we search for all the SMS receipts of 0622671086 hours.

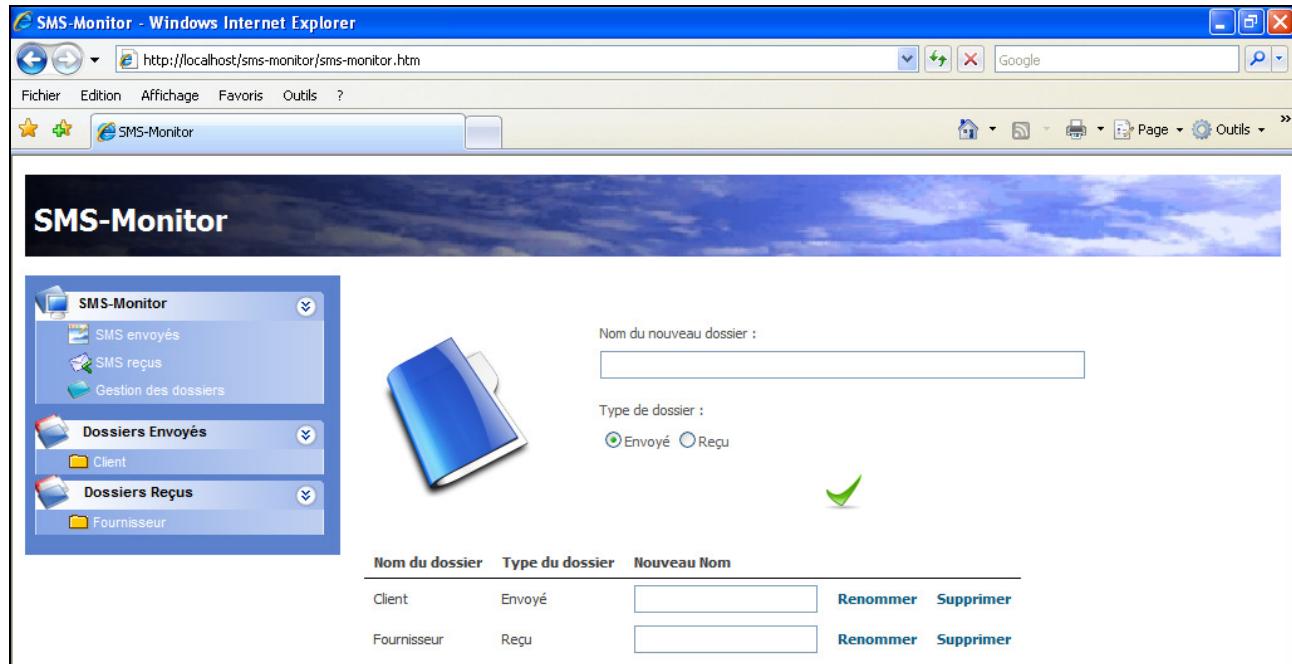
6.1.3.4. Eliminating some SMS

Please check the SMS to eliminate and use the tie eliminates. You cannot eliminate a SMS that is under treatment



A confirmation request proposed you.

6.1.4. Management of the backs



You can create some backs, re-elects them or eliminates them.

Attention: if you eliminate a back the outfit of the SMS content in this back will be also eliminated.

To of the reasons of compatibility the special characters and the accentuated characters are disconcerted in the name of a back.

6.1.4.1. Classifying the SMS

You have the possibility classifying the SMS. It fails before created an or several backs.

Please choose in the dropdown the back, check the SMS to classify and use the tie "classify in the back ". You cannot classify a SMS that is under treatment

The screenshot shows the SMS-Monitor application running in a Windows Internet Explorer window. The main interface includes a sidebar with links like 'SMS envoyés', 'SMS reçus', and 'Gestion des dossiers'. Below this is a tree view for 'Dossiers Envoyés' and 'Dossiers Reçus'. A central area displays a table of SMS records with columns for Date, Heure, SMS, De, Pour, Société, Etat, Objet, and Nombre. An 'Actualiser' button is at the top. A modal dialog box titled 'Windows Internet Explorer' asks 'Êtes vous sur de vouloir déplacer ces sms ?' (Are you sure you want to move these messages?). The table data is as follows:

Date	Heure	SMS	De	Pour	Société	Etat	Objet	Nombre
01/02/2008			KrolSoft	File d'attente	Rendez-vous confirmé	1		
01/02/2008			Plostation	Terminé	Annulation rendez-vous	1		
01/02/2008				Terminé	Rapport du 15/12/2007	1		
01/02/2008			CVM	Terminé	Visite Client	1		
01/02/2008				Traitemen	Avis Consommateur	1		

6.2. Installation of the Operator SMS-Monitor navigator application

On the CD of installation, It exists an index named CVM-Tools in which will find you the module EasyPHP, MySQL Connector.

All along the facilities, you won't have that to follow each stopping place interface later on. Follow well the command that proposed you.

It is briskly advised that any process is not active during the installation.

In command to use the SMS software-Web Monitor It is necessary installing the compose servers :

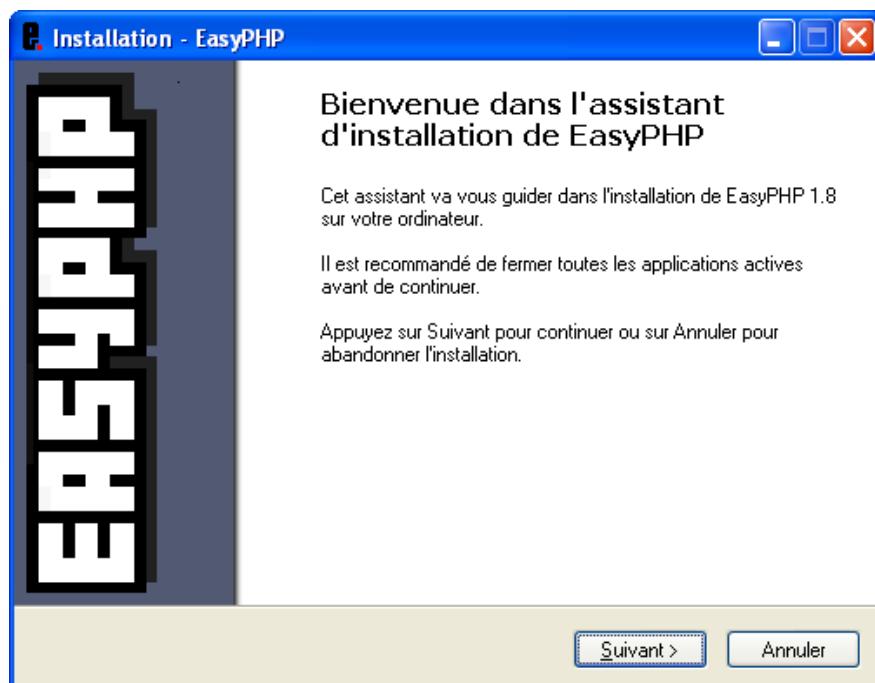
- EasyPHP : contain particularly the Apache Web server and the MySQL database.
- MySQL Connector : compose allowing to create some connections with MySQL.

To install these components, execute the corresponding modules in the corresponding backs.

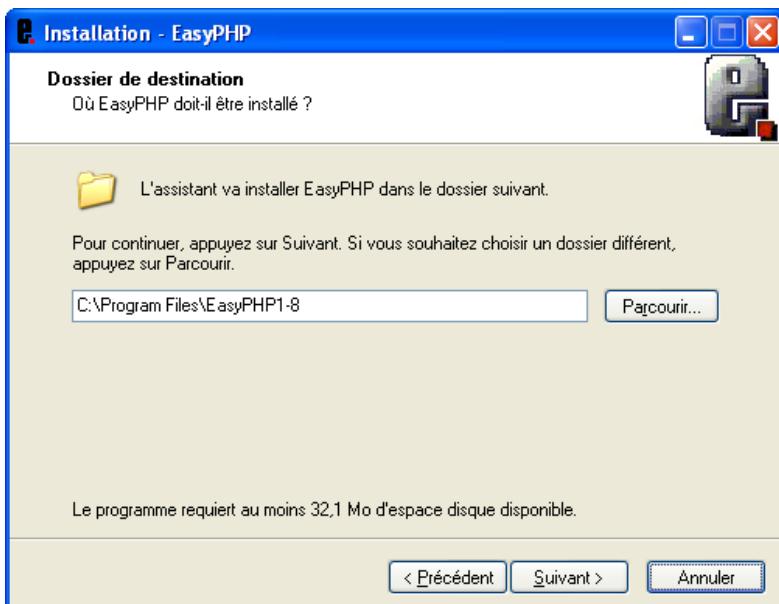
6.2.1. Installation of EasyPHP 1-8

Please install EasyPHP on the machine where the solution of SMS SMS-Monitor is installed.

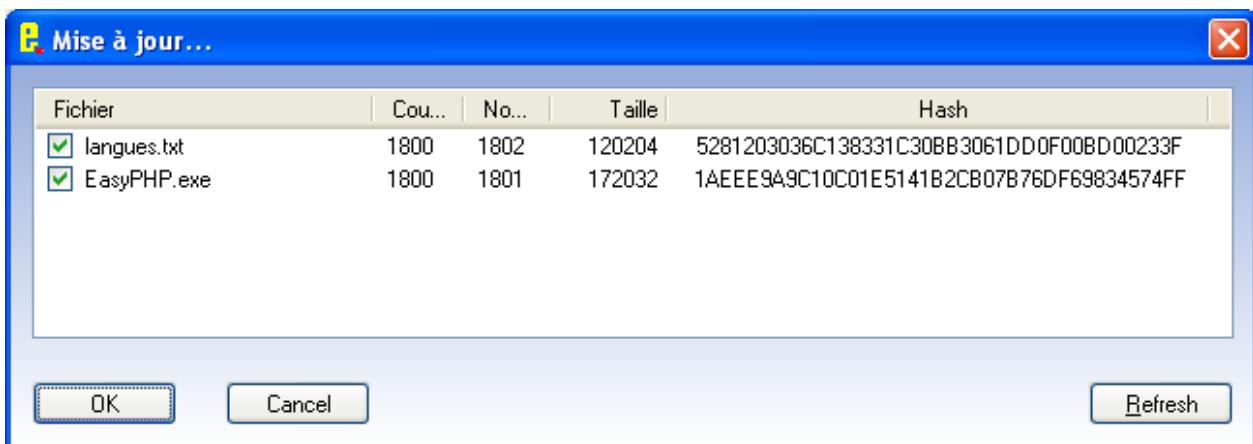
If EasyPHP is already installed on this machine happen to the following chapter.



Indicate the back of installation of EasyPHP.

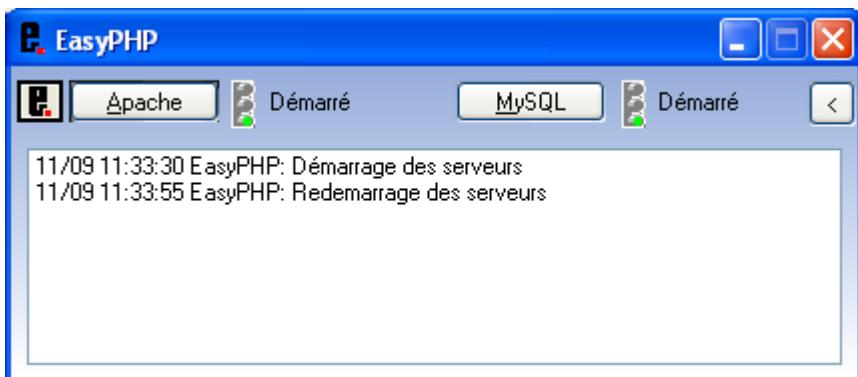


If of the updates are asked you, accept them.



EasyPHP must be run automatically at the end of the installation.

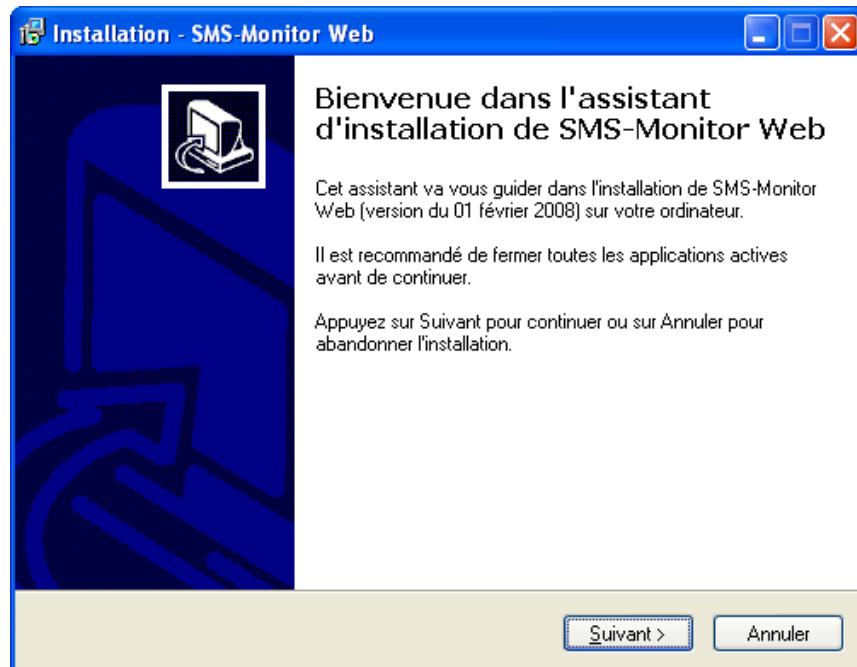
EasyPHP must compulsorily function to install the module web SMS-Monitor.



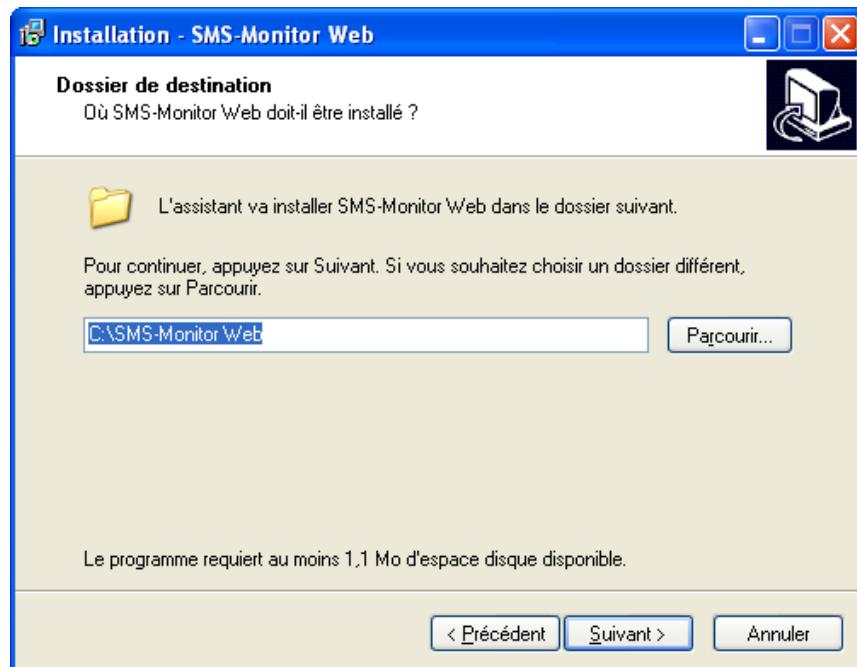
6.2.2. Installation of SMS-Web Monitor

Rush the SMS-Monitor_Web_Setup.exe file contained in the CVM-Connect back Web of the CD-ROM

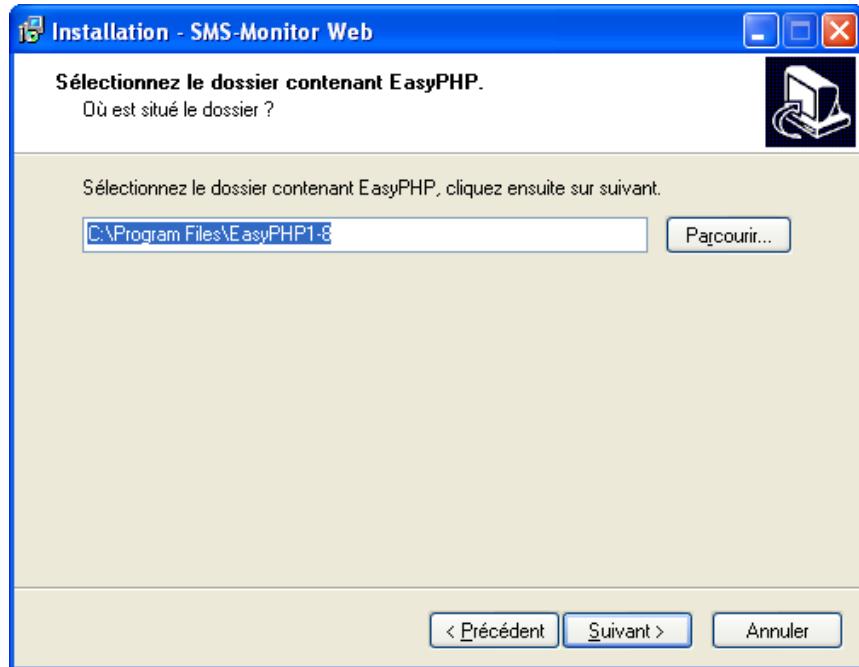
Attention : EasyPHP must compulsorily function to install the module web SMS-Monitor.



Please choose the back of installation of web SMS-Monitor.



Specify in the stopping place 3, the back where EasyPHP is installed.

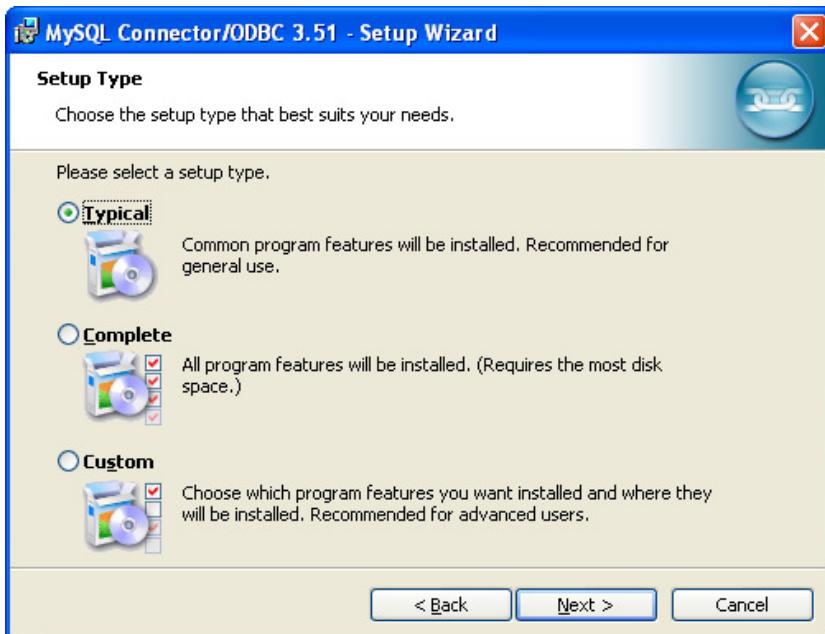


Finishing the installation.

6.2.3. Installation of the ODBC MySQL 3.51 driver

Rush the Setup.exe file contained in the SMS back-Web Monitor\MySQL ODBC of the CD-ROM.





Finishing the installation.

6.2.4. EasyPHP configuration

6.2.4.1. Configuration of the Apache web server

It fails modify two variables in the settings file of the Apache server (httpd.conf)

Open the httpd.conf file:

Straight click on the icon of EasyPHP present in the bar of the configuration tasks, menu\Apache.
Or

This file is in the EasyPHP back\Apache\conf (C:\Program flow smoothly\EasyPHP1-8\Apache\conf if installation by default).

Adding a # in front of the Listen line 127.0.0.1:80 (the line becomes #Listen 127.0.0.1:80).

Modifying the ServerName line localhost in localhost substitute by the name of the web server.

Recording and close the file.

6.2.4.2. Modification of the .htaccess file

In the EasyPHP back, go in the |www| back\ SMS-Monitor

Open the .htaccess file and modify the way of the variable AuthUserFile indicating the good back containing EasyPHP normally way E by default is c:/program files/easyphp1-8/www/import/.htpasswd

Recording and close the file.

6.2.4.3. Modification of the |logins| and password to have access to SMS-Web Monitor

SMS-Web Monitor has a protected access by |login| and password. By default can it use you root name and the password to have access to the web pages.

To modify this |login| and this and/or password adds other, edit the .htpassword file that is in the EasyPHP back and the under |www| back\import.

Syntax (a login and a password by line)

Login : password

Recording and close the file.

6.2.5. Creation of the ODBC data sources

AN ODBC data sources must be created so that CVM-Connect Web can function. **Warning, EasyPHP must still be in running.**

It fails use the utilitarian ODBC data sources

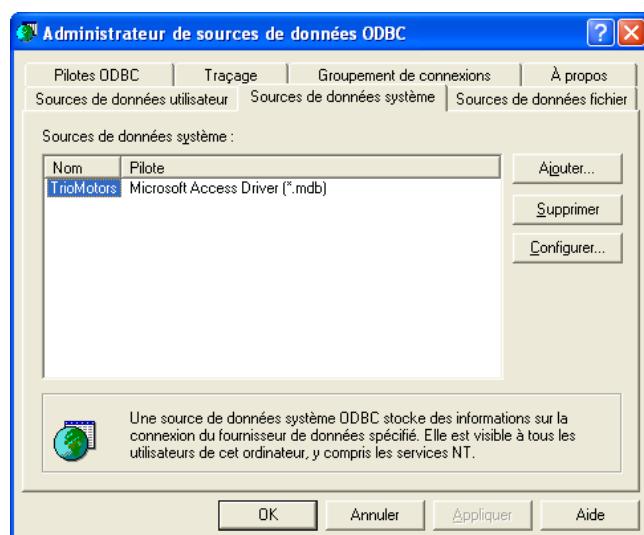


To 2000 Windows:

Click on poste de travail/Control Panel/administering/data sources tools (ODBC).

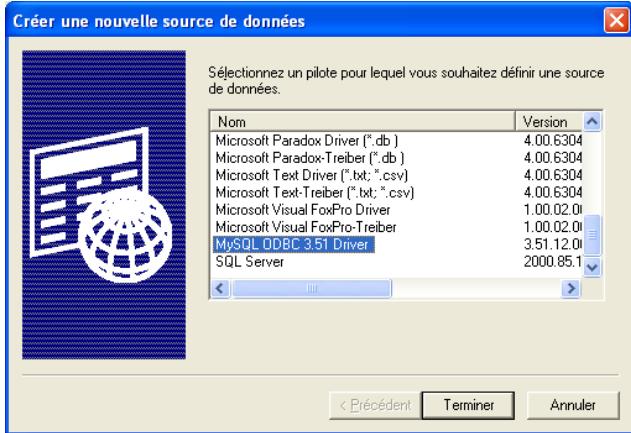
To XP Windows:

Click on poste de travail/Control Panel/performances and maintaining/administering/data sources tools (ODBC).

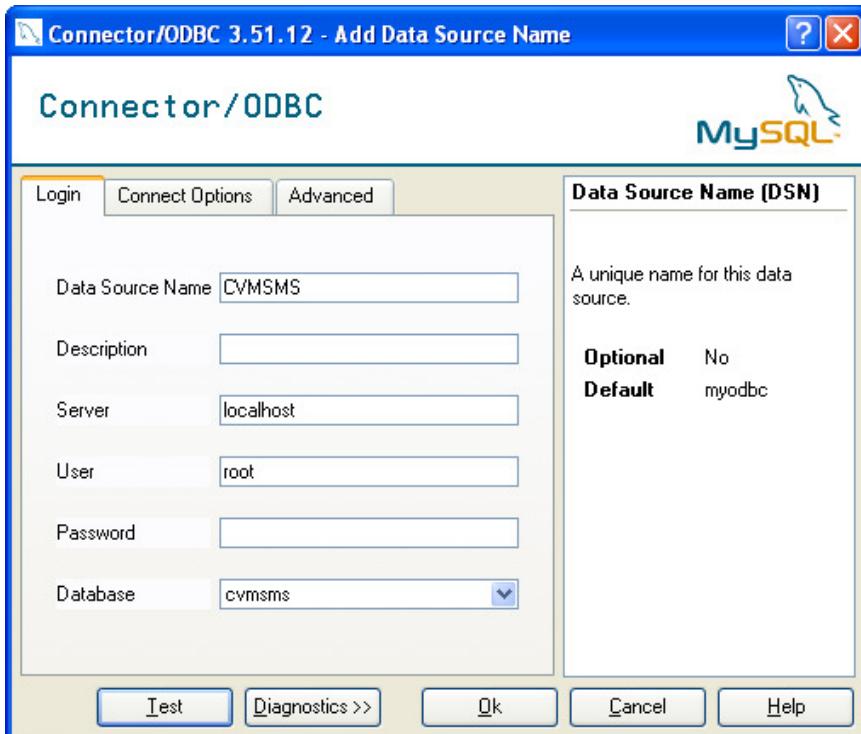


To declare a new ODBC data sources, go in the system database tab and clicks on the button add.

Please select the ODBC MySQL 3.51 driver.



Please inform the zone such as they it is on the image.



You can test the connection via the Test button



Close again the application. The application « Operator SMS-Monitor » is ready to be used.

7. INTERFACES TO APPLICATIONS

7.1. files API

7.1.1. Sending of messages

SMS-Monitor permits to all programs data processing emitting and receive an automatic making of the messages that will be converted in SMS message.

All file by carrying the extension .SMS is considered like a request of sending of a SMS.

In .SMS, can declare you some local indexes or Network. They will be scrutinized to regular programmed intervals.

In command to avoid all access conflict to the request file between the program producing these requests and the SMS -Monitor server, it's registered following the following procedure to create :

- Creating the file of request with any extension other than .SMS
- Write all the registrations by composing the request.
- Closing the file.
- Re-elects it with the extension .SMS.

As soon as SMS-Monitor has put in waiting line the request, it re-elects it with the extension .INQ
Besides, it adds at the end of the file of the registrations indicating the evolution of the executed treatments by the server on the request.

These registrations are interface more far.

When the message has been correctly broadcasted towards the GSM of the recipient, the request is renowned in .SNT. If, on the contrary, SMS-Monitor rejected it or that it does not could be transmitted at the end of the maximum time, it is renowned in .ERR.

A file of request is compound of a connected headline of the message to transmit to the GSM recipient. It fails create a file of request by GSM recipient.

Each file (produced by the applications) must include a headline, a registration of roll that the structure will be the following:

\$SMS-MONITOR: NUMBER 0660424801 BZJ4312 REF URGENT
\$SMS-MONITOR: SUBJECT "ALERTE INFORMATIQUE"

In :

NUMBER nnnnnnnnnn 	Indicates the number of the recipient. To the France, the numbers are of type : 06 nnnnnnnn (number to 10 figures of the recipient) To the rest of world : +CCnnnnnnnn where CC is the telephonic statute book of the fellow-countryman:
IDENT xxxxxxxxxxxx	SMS-Monitor has an annual mini by allowing stocking a list of names. Each entry in the annual is compound of the Christian name, of the name, of the society, of an identifying and the GSM number. The identifying must be sole (the roll for example). This registration allows to it specify identifying of the recipient

ATTN " name Christian name "	Like to the IDENT registration, this registration allows to designate the recipient of the message in the annual mini of SMS-Monitor. The server searches for the exact correspondence in the annuaire. If the Christian name is omitted in the request, the recipient won't be found that if his Christian name has not beened detrained. The inverted commas must delimit this value.
URGENT / IMMEDIATE	Class of sending that must be used to the message. An only class is if necessary to specify. If it's not specified the immediate class is used by default.
JJ/MM DATE	Indicates from what dates the file must be sent. mm represents the month and jj represents the day. mm and jj must always be specified with two figures, It fails therefore put a 0 in front of the figure of the day or the inferior month to 10. For example: DATE 01/15
TIME hh :mm	Indicates from what hour the file must be sent. hh indicates the hour (of 00 to 23) and mm the minutes (of 00 to 59). If to the date, these values must always be specified with two figures. Example: TIME 09:15
REF xxxxxxxxxxxxxxxxxx	Allows assigning a reference to each of the files to broadcast. It's enclosed in the returned yield by SMS-Monitor. This reference can include alphameric characters n (without spaces or white).
SUBJECT "texte"	Indicates the object of the message. It will be inserted in the beginning of the text. It can contain some space but of inverted commas.
MAXMINUTES nnn	Allows informing the operator that It must abandon the sending of the or the SMS. It does not could transmit them to the GSM recipients in the nnn minute. This value can be between 1 and 1440 (24 hours). It is approximate to the multiple of 5 upper when nnn is inferior to 720 (12 hours) and to the multiple of 30 upper beyond. If any of the MAXMINUTES key words, MAXHOURS and MAXDAYS is not indicated, that is the value configured by default that will be used.
MAXHOURS nn 	Allows informing the operator that It must abandon the sending of the or the SMS. It does not could transmit them to the GSM recipients in the hours nn . This value can be between 1 and 24. If any of the MAXMINUTES key words, MAXHOURS and MAXDAYS is not indicated, that is the value configured by default that will be used.
MAXDAYS nn 	Allows informing the operator that It must abandon the sending of the SMS. It does not could transmit them to the GSM recipients in the days nn. This value can be between 1 and 30. If any of the MAXMINUTES key words, MAXHOURS and MAXDAYS is not indicated, that is the value configured by default that will be used.
OPERATOR xxxxxxxxxxxx	This allows to force SMS-Monitor to use a GSM modem that has been definite to address to him to one of the operators (ITINERIS, SFR or BOUYGUES) if the application manages several modems.
ACKREQUIRED	Indicates that the SMS won't be considered like treatise that when the GSM recipient sends away a SMS, some is the text. By default, the SMS is considered like broadcasted when the yield of deporting in the memory of the GSM recipient is received of the operator.
MAXDELAY nn 	Indicates that, if the recipient has send away of SMS at the end of nn minute, It fails send away the same SMS. Is not applied that when ACKREQUIRED have been also specified.
MAXRESENDS nn	Indicates that, when the message has been send away time nn to the same recipient, It fails, happened to the following recipient. It there has, or abandon the request. Is not applied that when ACKREQUIRED have been also specified.

ALTNUMBERS nnnnnnnnnnnnnnnnn/nnnnnnnnnnn/ /nnnnnnnnnnnnnn	If the first recipient indicated with the NUMBER key-word has not answered at the end of the trial, maximum number, a new cycle of sending will be recommenced towards the number of GSM follow, and so on. Lare different numbers of GSM must be separate by of the characters/. The alternate number is not limited.
FLASH	This key-word allows indicating that the message must be sent in flash fashion. Dyers this fashion that is not perforce supported throughout the GSM, the SMS is displayed since receipt, without intervening of the possessor of the GSM. Care SMS have the detail of not be memorized in the SIM map and the recipient cannot use the function answers. To send a message in flash fashion, it is also possible to specify the GSM number of the recipient under the nnnnnnnnnnFLASH form some is the fashion of submission (files, e-mails, lotus API note, FTP, Telnet).
USEMODEM xxxx	Allows forcing the sending of the request by the modem that the name is indicated. Il concerns of the sole symbolic name of 4 characters declared in the first capture area of the window of settings of the modems.

NB : The NUMBER and IDENT keys words are mutually exclusive.

7.1.2. Yield of treatment

As previously, SMS-Monitor the requests, It adds at the end of the file .INQ of the registrations of roll. Each registration is compound of following:

\$SMS-MONITOR:XXXX: AA/MM/JJ HH:MESSRS:SS // yyyyyy text	
XXXXX	Indicates the type of the registration. Lare different stamp possible that interface more far.
AA/MM/JJ	Indicates the date of addition of the registration.
HH:MESSRS :SS	Indicates the hour of addition of the registration.
yyyyyy	is an optional dependent value of the record class.

The text is the in plain language explanation and in French of the registration and depends of his type.

When the message has beened correctly checked and signs for by the GSM, the file of request is renowned in .SNT. It did not could be checked and sign for in the maximum authorized delay, It is renowned in .ERR and the server not it stretch more.

The different record classes of yield are interface in the following board.
The column «value» optional contained before the sign // and the text.

Type	Meaning	Value
CARRYIN G FORWAR D	Mark the first turn of the registrations of added yield by the server.	
SIZE	Deal the total cutting in characters of the message to send. This value integrates the headline added automatically by SMS-Monitor (SMS :nnnn x/y).	Cutting of the message to send.

Type	Meaning	Value
TRUNC	To send the totality of the message, It must more of SMS that It is not authorized. The message has been truncated to respect this boundary.	Number of SMS generated.
NBSMS	Deal the number of SMS necessary to send the totality of the message.	Number of SMS to send.
SCHED	Indicates to what GSM modem has been assigned the message. In case of check at the time of the sending towards the GSM operator, It can of it have several registrations of this type.	Symbolic name to 4 characters of the modem by executing the sending of the message.
PROC	Mark the first turn of the treatment of the message by the GSM modem.	Symbolic name to 4 characters of the modem by executing the sending of the message.
SEND	First turn of sending to the operator of a SMS.	Cutting of the SMS in characters.
FEEL	Mark the fineness of the sending of a SMS towards the GSM operator.	Id sole assigned by the operator to the SMS.
XMIT	Indicates that all the SMS composing the message has been transmitted to the operator.	Number of SMS having been transmitted.
INFO	Message of received service of the operator. Indicated in general that the SMS has not still can be broadcasted towards the GSM.	Id sole of the SMS concerned (indicated value in the SENT registration).
DLVRY	Indicates that the operator has transmitted a message indicating that the SMS has been received by the GSM recipient.	Id sole of the SMS concerned (indicated value in the SENT registration).
REJECT	Indicates that the operator abandoned the sending of a SMS.	Id sole of the SMS concerned (indicated value in the SENT registration) and cause of the error.
FEEL	Indicates that the or the SMS composing the message has all been received by the GSM recipient. It concerns of the last registration of the file of yield. The file of request carries then the extension .SNT.	
ERROR	Indicates that at least of the SMS composing the message does not could be transmitted to the GSM recipient. It concerns of the last registration of the file of yield. The file of request carries then the extension .ERR.	

7.1.3. Examples of files treated by SMS-Monitor

File of SNT type
\$SMS-Monitor: NUMBER 0672774217 SMS test-Monitor. Patrick. \$SMS-MONITOR:CARRYING FORWARD: 00/03/20 14:21:40 00031 // assigned sole number: 00031 \$SMS-MONITOR:SIZE: 00/03/20 14:21:40 42 // length of the SMS: 42 \$SMS-MONITOR:NBSMS: 00/03/20 14:21:40 1 // number of SMS solicited: 1 \$SMS-MONITOR:SCHED: 00/03/20 14:22:09 GSM1 // assigned to the SMS GSM1 pilot \$SMS-MONITOR:PROC: 00/03/20 14:22:09 GSM1 // sending of the message by the GSM1 pilot \$SMS-MONITOR:SEND: 00/03/20 14:22:09 40 // sending of the SMS 1/1-40 characters \$SMS-MONITOR:FEEL: 00/03/20 14:22:14 184 // SMS 1/1 messenger-id: 184 \$SMS-MONITOR:XMIT: 00/03/20 14:22:14 1 // message transmitted-1 SMS

\$SMS-MONITOR:INFO: 00/03/20 14:24:01 184 // opinion of no deliverance to the id 184, codes 48
\$SMS-MONITOR:DLVRY: 00/03/20 14:25:25 184 // putting back opinion 184 receipts (1/1)
\$SMS-MONITOR:FEEL: 00/03/20 14:25:25 // Sending

File of SNT type

\$SMS-Monitor: NUMBER 0609162900

SMS test-Monitor.

Patrick.

\$SMS-MONITOR:CARRYING FORWARD: 00/03/14 15:59:35 00137 // assigned sole number: 00137
 \$SMS-MONITOR:SIZE: 00/03/14 15:59:35 42 // length of the SMS: 42
 \$SMS-MONITOR:NBSMS: 00/03/14 15:59:35 1 // number of SMS solicited: 1
 \$SMS-MONITOR:SCHED: 00/03/14 15:59:36 GSM1 // assigned to the SMS GSM1 pilot
 \$SMS-MONITOR:PROC: 00/03/14 15:59:36 GSM1 // sending of the message by the GSM1 pilot
 \$SMS-MONITOR:SEND: 00/03/14 15:59:36 40 // sending of the SMS 1/1-40 characters
 \$SMS-MONITOR:FEEL: 00/03/14 15:59:40 58 // SMS 1/1 messenger-id: 58
 \$SMS-MONITOR:XMIT: 00/03/14 15:59:40 1 // message transmitted-1 SMS
 \$SMS-MONITOR:DLVRY: 00/03/14 15:59:47 58 // putting back opinion 58 receipts (1/1)
 \$SMS-MONITOR:FEEL: 00/03/14 15:59:47 // Sending

File of ERR type

\$SMS-Monitor: NUMBER 0611944928

SMS test-Monitor.

Patrick.

\$SMS-MONITOR:CARRYING FORWARD: 00/03/24 13:57:40 00036 // assigned sole number: 00036
 \$SMS-MONITOR:SIZE: 00/03/24 13:57:40 42 // length of the SMS: 42
 \$SMS-MONITOR:NBSMS: 00/03/24 13:57:40 1 // number of SMS solicited: 1
 \$SMS-MONITOR:SCHED: 00/04/12 11:18:38 GSM1 // assigned to the SMS GSM1 pilot
 \$SMS-MONITOR:PROC: 00/04/12 11:18:38 GSM1 // sending of the message by the GSM1 pilot
 \$SMS-MONITOR:SEND: 00/04/12 11:18:38 40 // sending of the SMS 1/1-40 characters
 \$SMS-MONITOR:FEEL: 00/04/12 11:18:43 248 // SMS 1/1 messenger-id: 248
 \$SMS-MONITOR:XMIT: 00/04/12 11:18:43 1 // message transmitted-1 SMS
 \$SMS-MONITOR:ERROR: 00/04/12 11:18:43 // abandoned: No delivered at the end of 300 seconds

7.2. Receipt of SMS

When SMS-Monitor receives a SMS proceeding of a GSM, It created a file in the RECV subdirectory of the index of installation of the server. These files carry the extension .RCV.

They are compound of a generated headline by SMS-connected Monitor of the text of the SMS received.

The different registrations have all the form :

\$SMS-MONITOR:SMSRECV:XXXXXX: value

The different XXXXXX types are interface in the following board.

Type	Value
GSM	Identifying of the GSM modem has received the message.
FROM	Indicates the number of the GSM issuing under the +ccnnnnnnnnn form where cc is the fellow-countryman statute book (33 in France) and nnnnnnnnn the GSM number of the issuer without the first 0
DATE	Date of issue of the SMS under the AA/MM/JJ. form
TIME	Hour of emission of the SMS under the HH :MM :SS.

Immediately after the last \$SMS-MONITOR registration:XXXXXX: finds to him the text of the SMS such as entered by the issuer.

IMPORTANT: the date and the indicated hour are those of the emission in local hour. For example a SMS received instantaneously in France of an issuer of the Antilles will indicate about 6 hours of less.

7.2.1. Example of SMS received

File of RCV type

```
$SMS-MONITOR:SMSRECV:GSM: GSM1  
$SMS-MONITOR:SMSRECV:FROM: +33672774217  
$SMS-MONITOR:SMSRECV:DATE: 00/03/20  
$SMS-MONITOR:SMSRECV:TIME: 14:23:41
```

Ok to the |rdv|.

7.3. Database interface

Like It has been explained in the rebuke in chapter preceding, it is possible to configure some tables that will be used to stock the SMS received or to generate some requests of sending of message by SMS.

The following chapters explain how the applications must use these lower parts.

7.3.1. Sending of SMS

Please turns you to the chapter 4.1.4 page 53 that explains how create and declare the tables that will be had access by the SMS -Monitor server.



To generate a request of sending, create a new registration in the lower part. The fields to inform to the minimum are the GSM number of the recipient and the text of the message to address.

You can also add of the information that will serve to the follow-up like the recipient or the object. If you wish that SMS-stretch Monitor of particular making the request, you can also insert of the key-words of the files API (see preceding chapter) in the field of the key-words, for example to change the duration of validity of the SMS.

When all the fields have been informed, it suffices stocking the value 1 in the field «status of the request». This value indicates to SMS-Monitor that the registration is ready to be used to generate a request of sending of SMS;

As soon as SMS-Monitor took in account the registration and during all the time where the request is in progress, the zone «status of the request» contains the value 2.

As soon as the operator informed SMS-Monitor that the message has been completely transmitted in the memory of the GSM recipient or, on the contrary, that the sending has been abandoned at the end of the maximum authorized time, this field happens to the value 3. From that time onwards, the application must consult the contents of the champ «Result of the treatment». It contains the value 1 that is that the message has well been sent to his recipient. In the contrary case, it contains 0 and the field «Error» contains the explanation of this one.

The fields that have been informed by SMS-Monitor and that the application can then use are: the sole number of the request, the date and the hour of fineness of treatment, the SMS number having been necessary to treat the message as well as the yield of complete treatment as well as the yield of complete treatment such as indicated to the preceding chapter.

Example of table of emission under SQL Server:

The screenshot shows a Microsoft SQL Server Management Studio window titled "2:Données de la table « SendSMS »". The table has columns: Status, GSMNumber, Attn, Subject, Message, Result, and Error. There is one visible row with the following data: Status is 1, GSMNumber is 0660424801, Attn is Patrick DUMOLEYN, Subject is @303080075 ULYSSE4 GO411858, Message is 1, Result is empty, and Error is empty.

	Status	GSMNumber	Attn	Subject	Message	Result	Error
▶	1	0660424801	Patrick DUMOLEYN	@303080075 ULYSSE4 GO411858	1		
*							

7.3.2. Receipt of SMS

The chapter «Add in a page database» page 39 explains how configure SMS-Monitor that It adds a registration in a table to each SMS received.

When a SMS is received, SMS-Monitor adds a registration in the lower part and informs the different fields interface to the chapter indicated above. At the end, It records the value 1 in the field «Flag» to indicate that It concerns to him of a new SMS.

An application treating the received messages must execute a selection on this field contain 1 then eliminate the registration or change the value of the field «Flag» to avoid to reprocess it.

Example of destination table under SQL Server:

The screenshot shows a Microsoft SQL Server Management Studio window titled "2:Données de la table « RecvSMS »". The table has columns: Id, Date, Time, GSMNumber, Message, Modem, and NewSMS. There are eight visible rows with the following data:

	Id	Date	Time	GSMNumber	Message	Modem	NewSMS
▶	3	03/03/19	18:06:47	+33672774217	Test 18:08.	FT	1
	11	03/03/10	13:18:51	+33672774217	@303080075 ULYSSE4 GO4	FT	1
	12	03/03/10	13:28:41	+33672774217	Test 13:29.	FT	1
	14	03/03/10	12:49:21	+33672774217	Test 12:50.	FT	1
	15	03/03/31	09:09:51	+33672774217	De: Patrick DUMOLEYN <pdumoleyn@orange.fr>	FT	1
	17	03/05/05	11:37:26	+33672774217	Objet : Erreur lors de l'envoi	FT	1
	16	03/03/31	09:17:44	+33672774217	Test routage auto.	FT	1
*	18	03/05/05	11:38:50	+33672774217	Test réception SQL.	FT	1

8. SMS-DOMINO MONITOR AND LOTUS NOTES

SMS-Monitor is a natural component of the concept of "unified carrying trade". With SMS-Monitor an user of the lotus carrying trade note can broadcast and receive directly of the SMS messages opposite corresponding having telephone cellular GSM.

CVM software publishers since 1985 are:

The following chapters describe:

- The SMS emission since a lotus client note.
- The installation and the configuration of the different components.

8.1. Sending of SMS by the memo function

The manner specifying the GSM recipients depend of the configuration that has been prudent (see chapter follow).

8.1.1. Towards a bases mail

This method avoids to must create a foreign domain or SMTP in the address books of notes. It suffices creating a pseudo user note with his bases mail using the standard function of registration of the users. The SMS to send is sent as memo to this user. The memos are therefore sorted and route towards the associated mail lower part.

SMS-Monitor is then configured to scrutinize this bases mail to of it detect all the requests of sending of SMS (see the chapter «Lotus Notes» page 45).

There are two methods to indicate to SMS-Monitor this that It must do a message.

The first is the more simple and does not allow to indicate that the recipients of the message. To that, It suffices adding a line in the text of the message by respecting the following syntax:

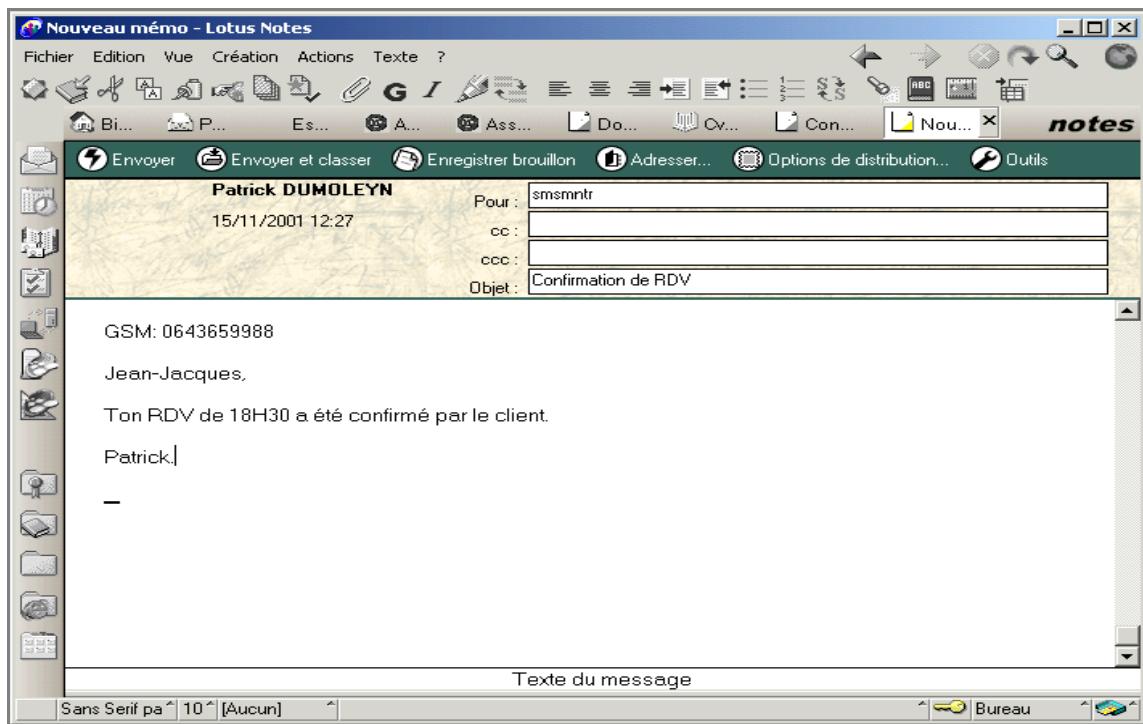
GSM : numéro_GSM1

Or to several recipients:

GSM : numéro_GSM_1, numéro_GSM_2, numéro_GSM_3

The GSM word must be in column 1 and must be connected of a signed two dawnd. When it there several GSM recipients, separate them by of the commas. The spaces have not an importance.

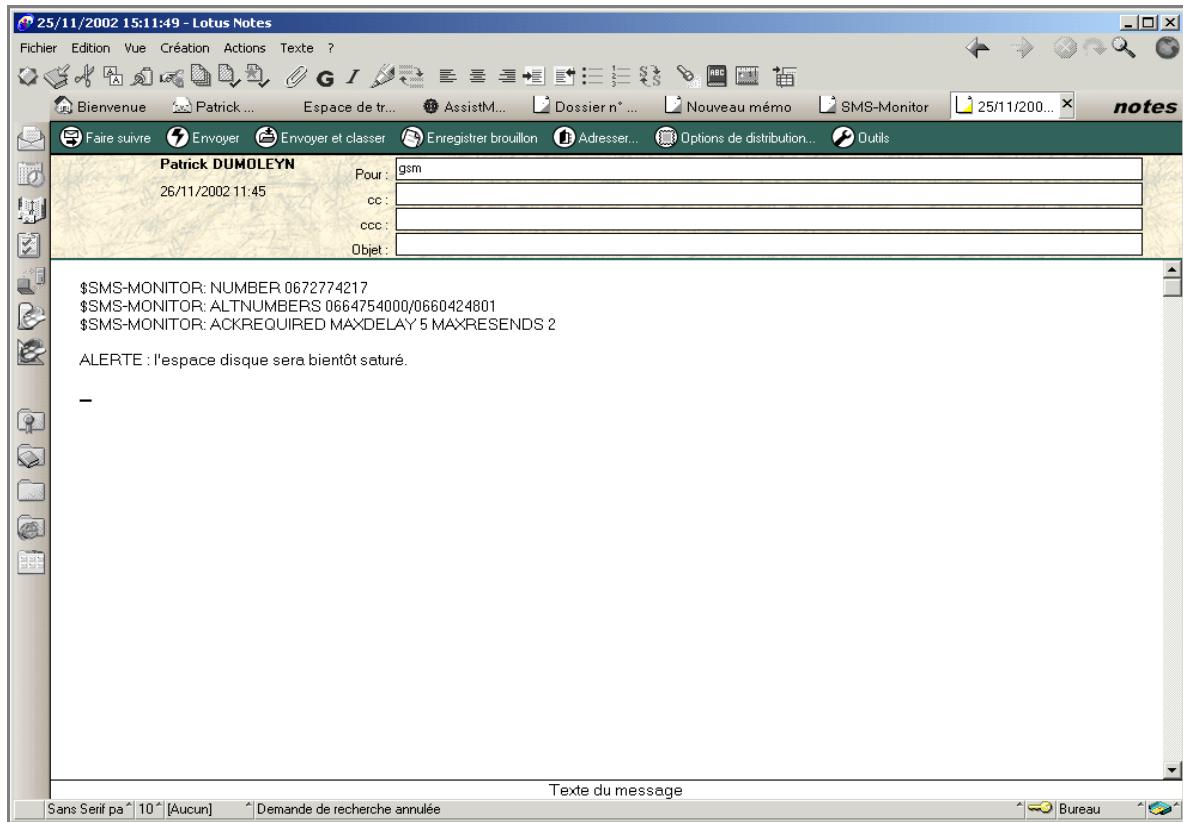
Example of SMS sent by memo :



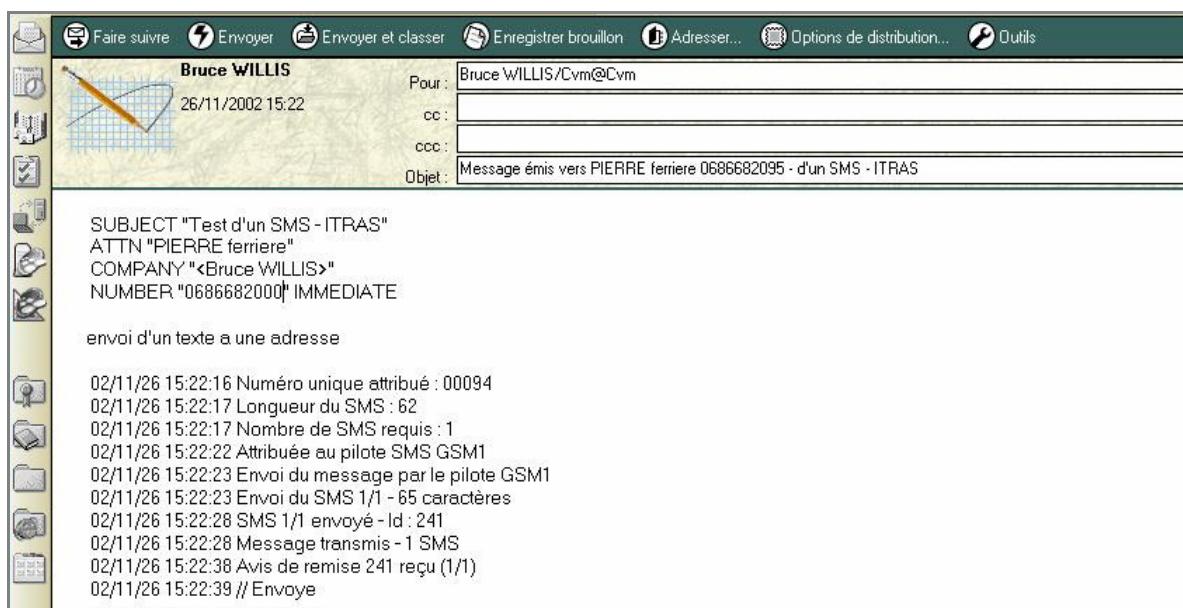
The method second is the more complete bus It allows to exactly specify the same parameters that with the file API.

To that, it suffices placing in the body of the text or several lign off begin by the \$SMS-Monitor keyword: exactly like at the time of the creation of a file of request (see the chapter «Sending of messages»).

Example of message :



Dividing up of a SMS sent from SMS-Monitor to Lotus Notes spread out by CVM



Mail in arrival with SMS received (and messengers)

The screenshot shows the 'Bruce WILLIS - Inbox' window in Lotus Notes. The left pane is a sidebar with icons for 'Courrier', 'Brouillons', 'Envoyés', 'Tous documents', 'Corbeille', 'Forums', 'Règles', and 'Modèles'. The right pane is a table listing received messages. The columns are 'Qui', 'Date', 'Taille', and 'Objet'. The table contains the following data:

Qui	Date	Taille	Objet
SMS-Monitor	05/02/2002	1 486	Message émis vers 0661261097 - Merci Bernard
SMS-Monitor	05/02/2002	1 027	SMS reçu de +33661261097 le 02/02/05 à 14:33:16
SMS-Monitor	05/02/2002	1 475	Message émis vers 0660424801 - Test SMS
SMS-Monitor	05/02/2002	1 015	SMS reçu de +33660424801 le 02/02/05 à 16:00:13
Serveur CVM-CONNECT	05/02/2002	29 429	Rapport de traitement : Test de fax
SMS-Monitor	20/09/2002	1 457	Message émis vers 0660424801 - Test
SMS-Monitor	14/10/2002	1 674	Message émis vers VERVEER_Jean-Jacques 0664754000 - Essai de fin de journée_14/10/2002
SMS-Monitor	21/10/2002	1 601	Erreur lors de l'envoi vers DURAND_Pierre 0672774217 - envoi SMS Entelia
Bruce WILLIS	20/11/2002	961	Message émis vers 0660424801 -
Bruce WILLIS	20/11/2002	866	Message émis vers 0660424801 - SMS
Bruce WILLIS	21/11/2002	950	Erreur lors de l'envoi vers 0672774217 - SMS
Bruce WILLIS	21/11/2002	965	Erreur lors de l'envoi vers 0660424801 -
Bruce WILLIS	21/11/2002	1 065	Message émis vers DUMOLEYN Patrick 0660424801 - depuis Lotus Notes
Bruce WILLIS	21/11/2002	1 053	Message émis vers 0672774217 - depuis la fonction créer un nouveau mémo
Bruce WILLIS	26/11/2002	1 059	Message émis vers VERVEER Jean-Jacques 0664754000 - d'un SMS - ITRAS
Bruce WILLIS	26/11/2002	1 048	Message émis vers PIERRE ferriere 0686682095 - d'un SMS - ITRAS

Example of a SMS received

The screenshot shows a received SMS message. The header information is as follows:

- Pour : <BWILLIS@cvm.fr>
- cc :
- Objet : SMS reçu de +33660424801 le 02/02/05 à 16:00:13

The message body is:

De: <BWILLIS@cvm.fr> - Objet : Test SMS - Bonjour

8.1.2. Towards a domain note foreign or SMTP

The address books of Lotus Notes can be configured to create a domain note foreign or a SMTP domain to the SMS (see chapter follow).

In this case, the sending towards the GSM recipient executes to him indicating like recipient of the memo an address by having the following syntax:

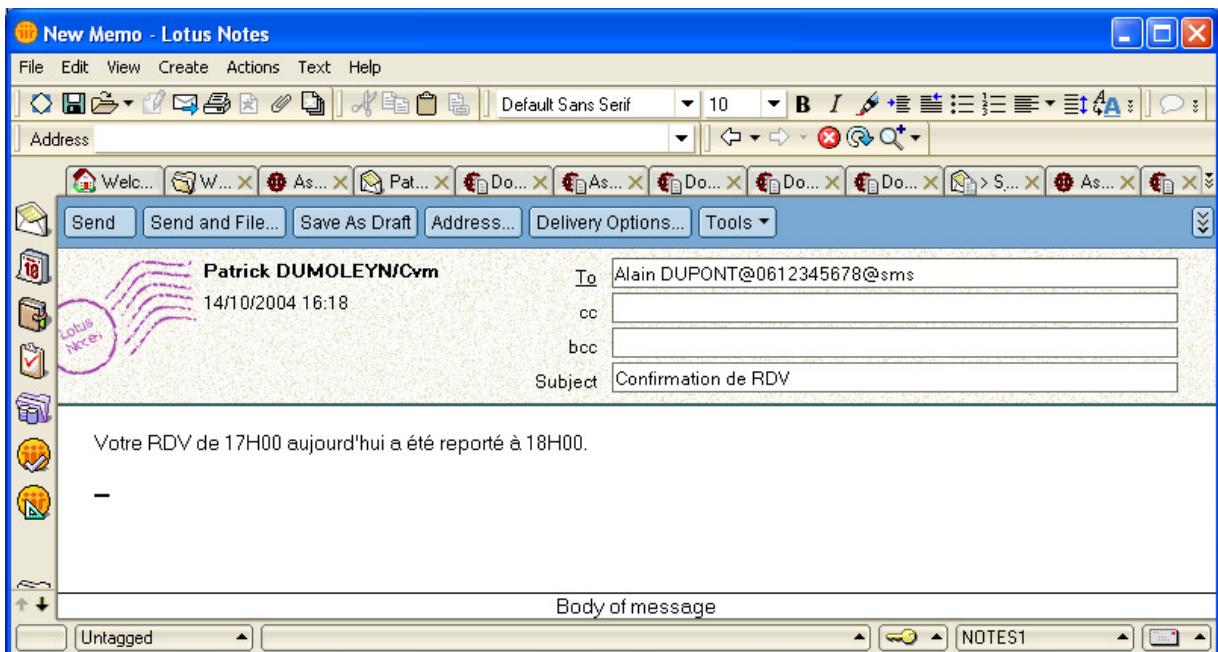
06nnnnnnnn@domaine
or 06nnnnnnnn@domaine.sms

The first format uses to him when a foreign domain notes has been declared and the second when it concerns to him of a SMTP domain (see rebukes in chapter settings below).

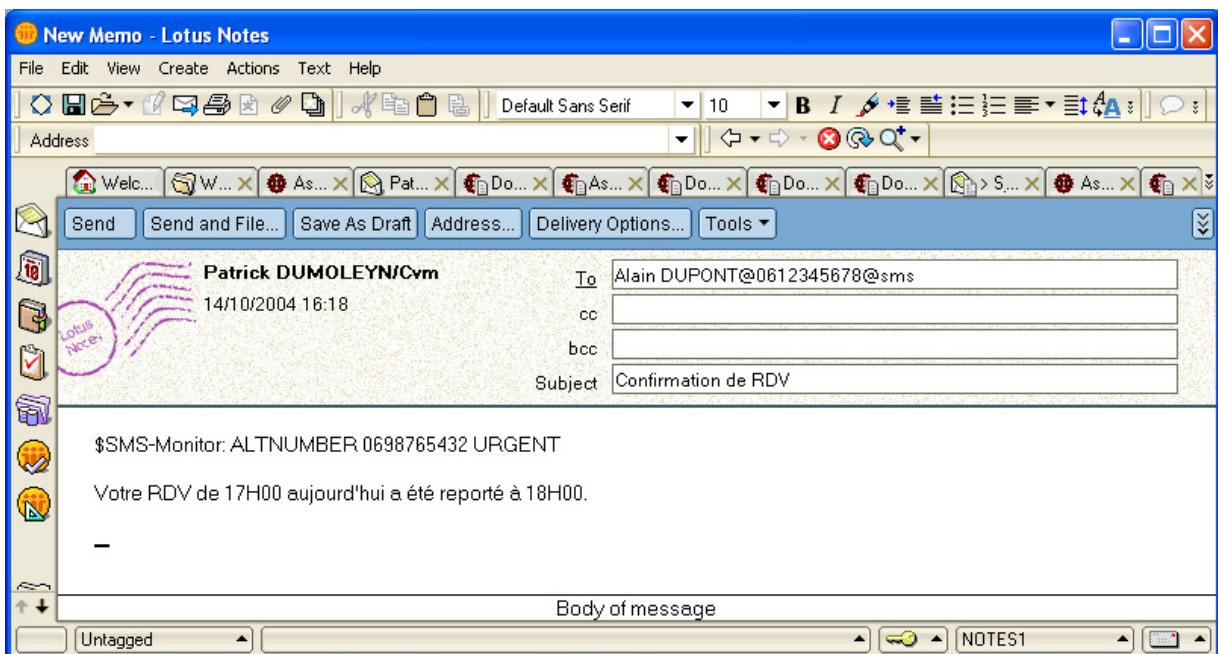
To facilitate the follow-up, it is also possible to specify the name of the recipient:

Nom_destinataire@06nnnnnnnn@domaine
or Nom_destinataire@06nnnnnnnn@domaine.sms

If an object is detrained, it will be enclosed in SMS messenger. The text of the memo is also messenger.



It is also possible to add in the memo, in addition to the text, to that, it suffices placing in the body of the text several lign off begin by the \$SMS-Monitor key-word: exactly like at the time of the creation of a file of request (see the chapter «*Sending of messages*»).



Of course, these registrations won't be transmitted in the SMS.

8.2. Sending of SMS by the lower part of sending of the SMS

To the opening of the lower part, a menu (navigator) allows to have access to two views:

- Sending messages: this sight is presented by default to the opening of the lower part.** It lists all the messages that have sent by the user run, sorted by dates, of the more recent to the more elder (the command of sorting is modifiable clicking on the headline of the column) and present also the object of each message.

Nouveau message			Nouveau message à partir d'un modèle	Paramétrage
Date/Heure	Objet	Destinataires		
28/02/2006 08:51:21	Test SMS	DUMOLEYN Patrick [0660424801]		
15/02/2006 09:26:30	test	Krol Eric [0622671086]		
06/02/2006 11:41:49	test2	eric krol [0622671086]		
06/02/2006 11:41:03	test	eric krol [0622671086]		
06/02/2006 11:18:24	test	Krol Eric [0622671086]		
06/02/2006 11:03:22	tets	Krol Eric [0622671086]		
06/02/2006 10:59:15	test	Krol Eric [0622671086]		
11/01/2006 12:02:14	Mission pour le 16/	VERVEER Jean-Jacques [0680732550]		
11/01/2006 11:55:49	mission pour le 16/01	VERVEER Jean-Jacques [0680732550]		
09/01/2006 09:37:55	test	VERVEER Jean-Jacques [0680732550]		
19/09/2005 16:03:27	Second test	[0610901754]		
23/05/2005 10:31:30	RV chez Aubert et Duval	DUMOLEYN Patrick [0660424801],VERVEER Jean-Jacques [0680732550]		
15/04/2005 10:39:28	Adresses IP	Mr BELLARD [0676878901]		
03/03/2005 12:51:26	Montant du chéque impayé	Mr Dupuy [0614063913]		
15/02/2005 10:38:22	second essai	VERVEER Jean-Jacques [06 64 75 40 00]		
15/02/2005 10:36:11	réunion du 15/02	VERVEER Jean-Jacques [06 64 75 40 00]		
31/01/2005 18:06:44	SMS Flash	[0660424801]		
31/01/2005 18:05:13	SMS Flash.	Jean-Jacques VERVEER [0664754000]		
31/01/2005 17:56:06	test	DUMOLEYN Patrick [0660424801]		
31/01/2005 17:42:41	test flash	VERVEER Jean-Jacques [06 64 75 40 00]		

- Messages in attente : this present sight the messages that have been recorded but still messengers (the rough drafts), like the preceding sight.

From each of these sights, a button «  » allow to open the window of creation of a new message.

- [Lists of diffusion : this sight permits to the authorized users creating, modify and eliminate some lists of diffusions and manages the rights of access](#)

When clicks on you «  », a new empty document opens to him to the screen. It composes to him some zone following:

- Name of the issuer: that is the user name that creates the document.
- Date and hours
- Récipients
- Object of the message : optional text box
- Class of sending: Immediate, urgent or planed. By default the value is «Now». The sending can be planed to a date and a precise hour. To that, It fails select «Schedule» in the keywords then indicate the date and the hour of the sending.

Classe d'envoi :	<input type="radio"/> Immédiat	<input type="radio"/> Urgent	<input checked="" type="radio"/> Planifié	29/06 <input type="button" value="16"/>	<input type="checkbox"/> SMS Flash
				<input type="button" value="15:00"/>	

- SMS Flash : By ticking the box this hut to send a SMS flash.

The SMS sent in flash fashion are displayed since receipt, without intervening of the possessor of the GSM. These SMS has the detail of not be memorized in the SIM map and the recipient cannot use the function answers.

This fashion of sending is not perform supported throughout the GSM.

- Text of the message: text box. The contained character number in a SMS is limited to 160. To control the number of characters writes in your message, clicks on the button «Count» placed at the bottom of the document.

Nombre de caractères :	0	<input type="button" value="Compter"/>
------------------------	---	--

The screenshot shows the SMS-Monitor software interface. At the top, there are menu options: Envoyer (Send), Sauvegarder (Save), Fermer (Close), and Adresses... (Addresses...). Below the menu is a logo for "SMS-Monitor" featuring a computer monitor and a mobile phone. The main title is "Envoyer de SMS via SMS-Monitor". On the left, there is a sidebar with "Envoyé par : Majorie MORNÉT/Cvm" and "Date/Heure : 29/06/2004 14:55". The main area has fields for "Destinataires :" (Recipients) with buttons "Ajouter" (Add), "Supprimer" (Delete), and "Modifier" (Modify), and "Objet :" (Subject). Below these are "Classe d'envoi :" (Delivery class) radio buttons for "Immédiat" (Immediate), "Urgent", and "Planifié" (Scheduled), and a checkbox for "SMS Flash". A large text area for "Texte du message :" (Message text) is present, with a character counter showing "Nombre de caractères : 0" and a "Compter" (Count) button. There is also a "Texte au format RTF" (RTF text) button.

8.2.1. Choice of the recipients

The choice of the recipients of the message can be done of two ways:

- Bringing to the keyboard, the number of GSM and the name of the recipient (optional) in limps it of dialogue of seizure that is displayed at the time of a click on the sentient zone « Add » on the right of the zone « Recipients ».



If this recipient does not appear in the lotus address books note available, you can the of it add selecting the address books target in the list then in clicking on the button « Add to the notebook of address ».

- Using the Notes address books: to that do clicks on the button.
 - to this moment a dialog box opens in which we can :
 - 1 - Choosing the address books to use among the list of the available address books.
 - When your choice is fully developed, click on the button «OK» correct next to the list of the address books.

The list of the people belonging to the selected address books displays then (only the people that the GSM number exists in the address books appears in the list).

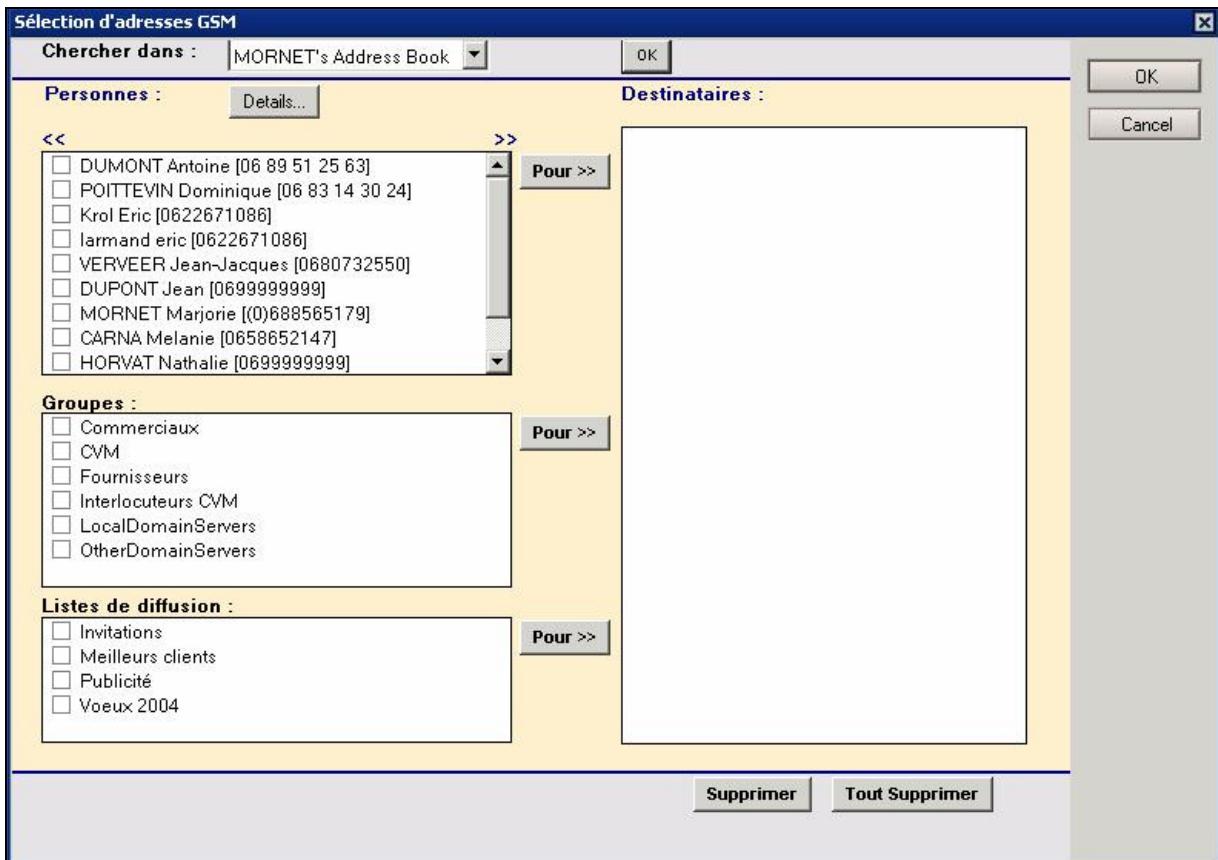
2 - Selecting the /les person (s) then clicks on «For». The list of the selected people appears then in the fore seed zones to this effect, in the right part of the dialog box.

3 - The list of the groups belonging to the selected address books displays then (all the groups' displays to him, only the people that the GSM number exists in the address books will be occupied in account in the recipients). Selecting some groups, among the group accessible and clicks on the button «For» associated.

4 - Selecting some lists of diffusion, among the accessible diffusion lists (see chapter 6.2.2) and clicks on the button «For».

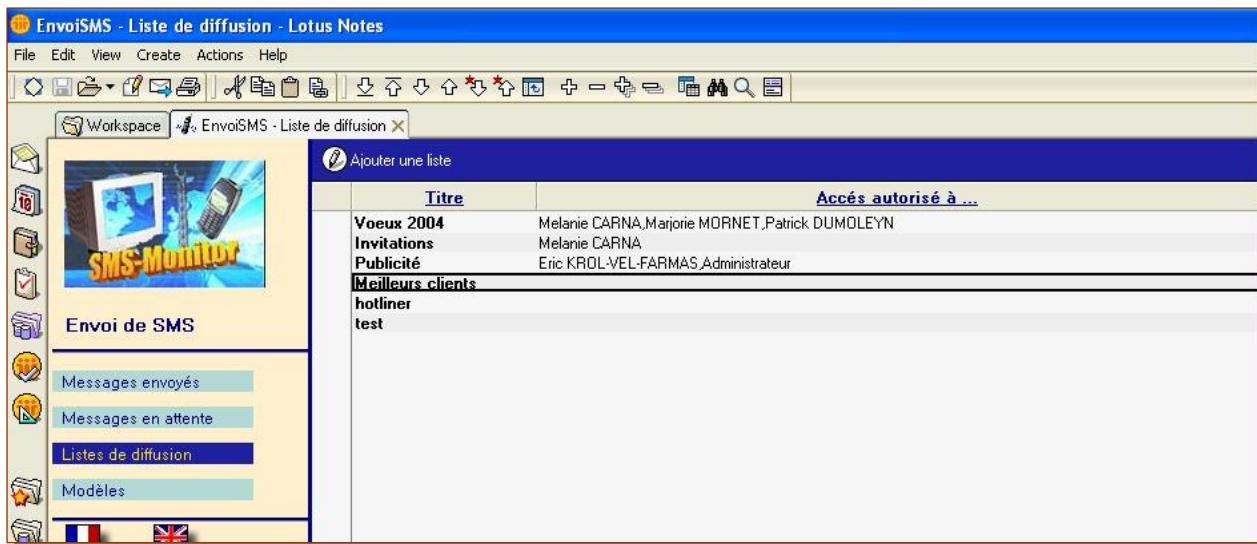
5 - When your choices are fully developed, click on «OK». The name and the GSM number of each selected person appear then in the zone «Recipients» of the new message.

➤ You can at any time add or eliminate some recipients of the list.



8.2.2. Management of the lists of diffusion

The management of the lists of diffusion is not accessible that to the users possessing the GestionListe list in the access control list of the lower part.



A list of diffusion compose :

- of a title, by which it is identified,
- a list of the recipients, selected in the address books
- a list of the authorized users to use this list (individual users or group of users).

Sauver **Fermer** **Sélectionner les membres...**

Liste de diffusion

Titre de la liste :

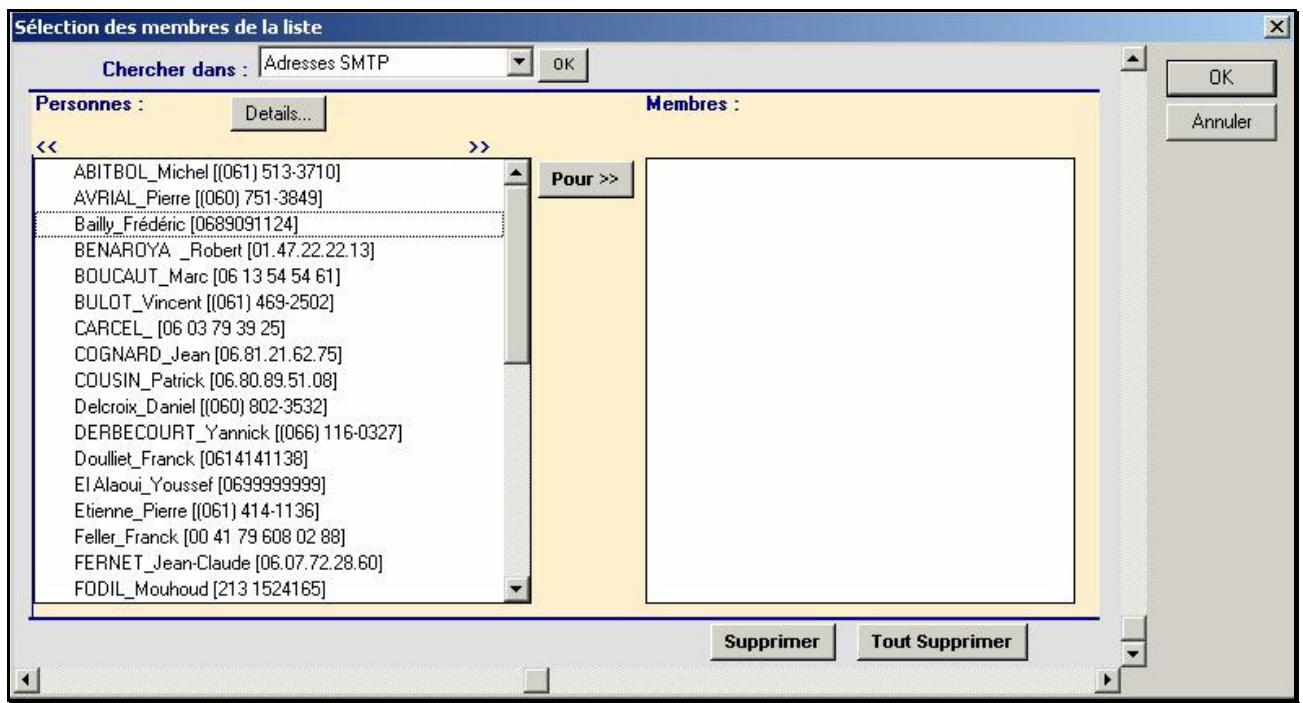
Membres :
ABITBOL_Michel [(061) 513-3710], AVRIAL_Pierre [(060) 751-3849],
Bailly_Frédéric [0689091124], BENAROYA_Robert [01.47.22.22.13],
BULOT_Vincent [(061) 469-2502], CARCEL_[06 03 79 39 25],
COGNARD_Jean [06.81.21.62.75], COUSIN_Patrick [06.80.89.51.08],
Delcroix_Daniel [(060) 802-3532], DERBECOURT_Yannick [(066)
116-0327], Douillet_Franck [0614141138], El Alaoui_Youssef
[0699999999], Etienne_Pierre [(061) 414-1136],
FERNET_Jean-Claude [06.07.72.28.60], James_Claude [(060)
931-5555], LECLÈRE_Yann [06.19.65.93.73], Lelouet_Hervé [(068)
541-6112]

Droits d'accès :

To create a list of diffusion, places to him on the sight presenting the list existing and clicks on the button .

1- Completing the title.

2- Selecting the limbs of the list, clicks on the button. The following window appears :



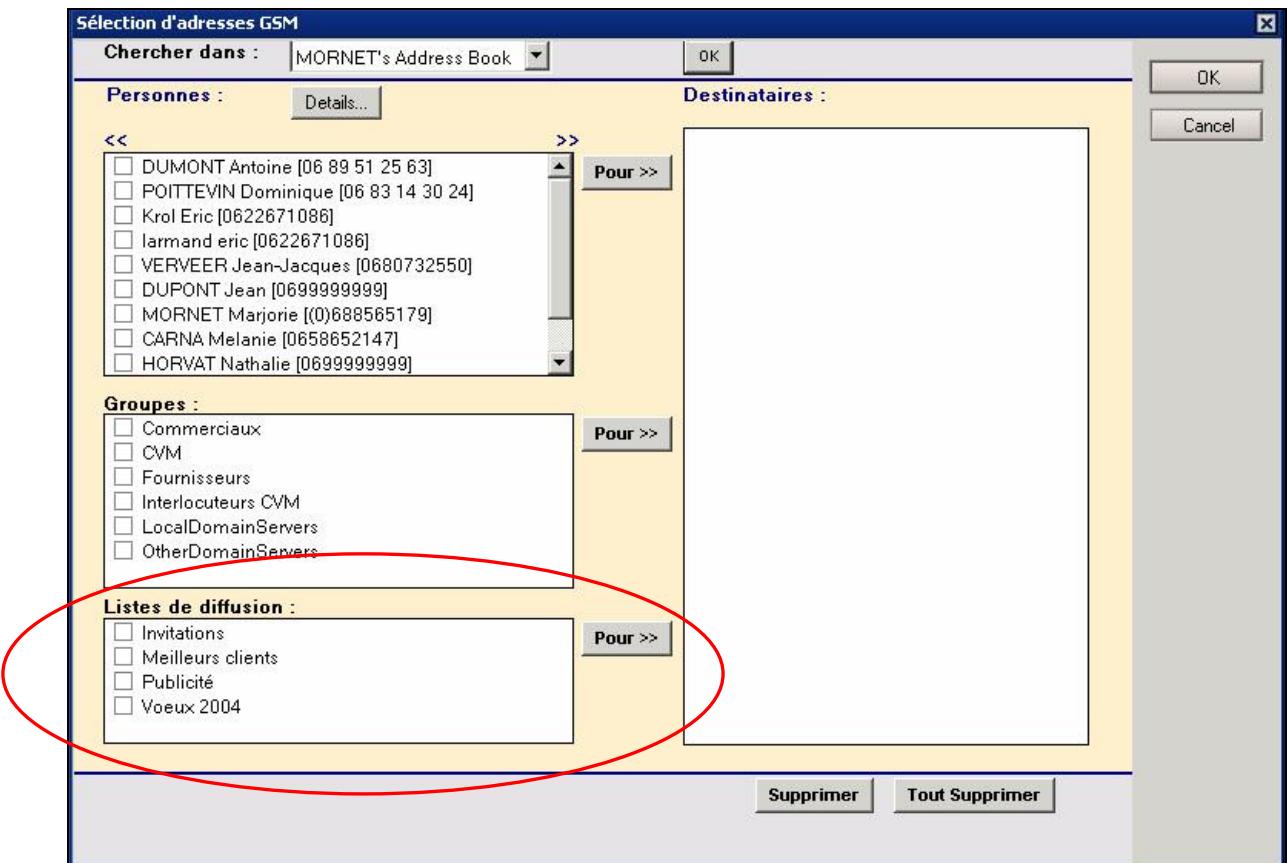
In this window, select the address books in which choose the limbs and clicks on «OK».

In the list of the people that is displays, select those to enclose in the list of diffusion then clicks on «For».

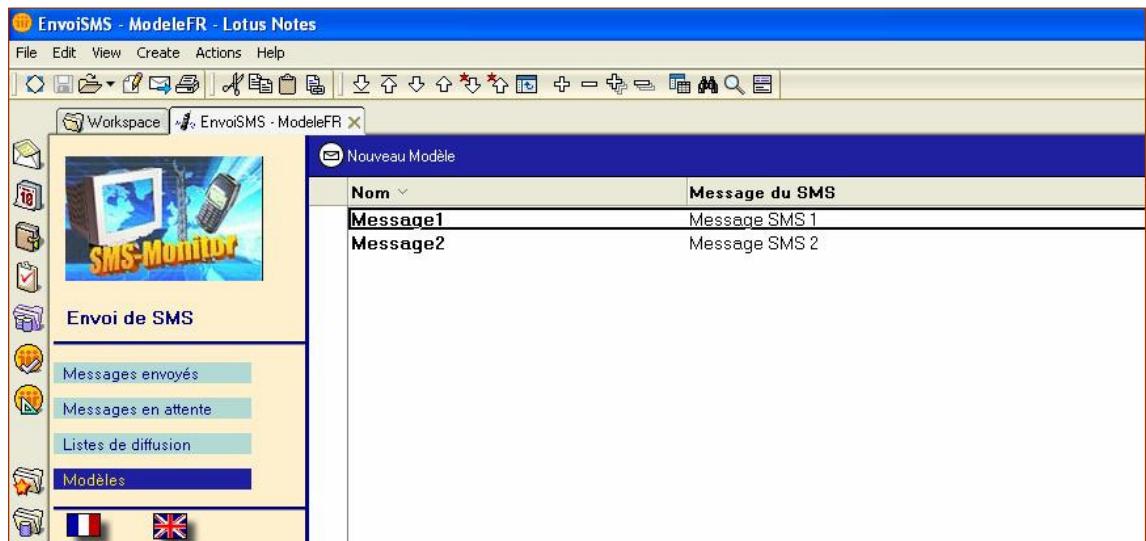
When the choice and executed, clicks on «OK».

3- Selecting the authorized users to use this list of diffusion. The definite users here will see appear this list of diffusion in the window of selection of address at the time of the creation of a new message.

Each user won't see that the lists of diffusion in which his name appear in the list of access.



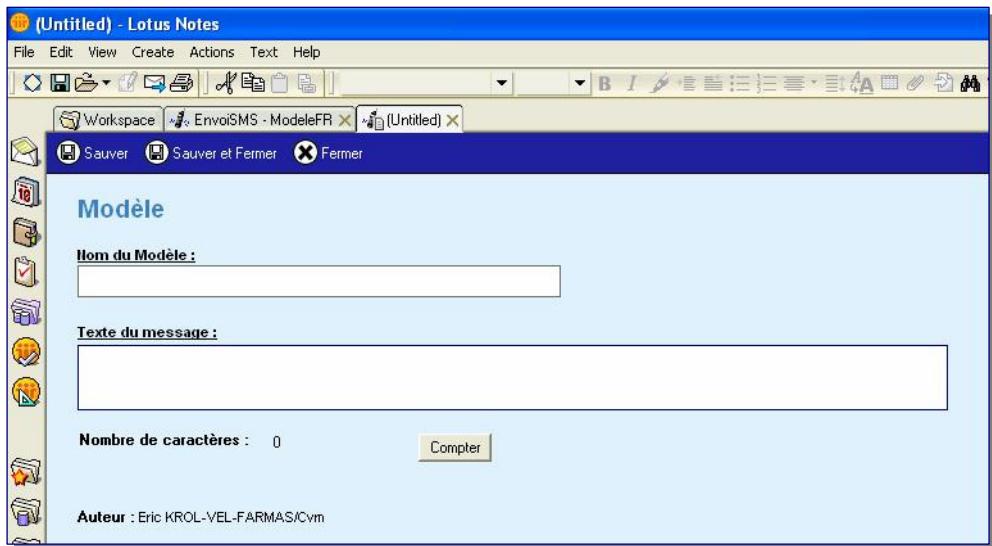
8.2.3. Management of the models of SMS message



To create a new model, places to him on the sight presenting the list existing and clicks on the button



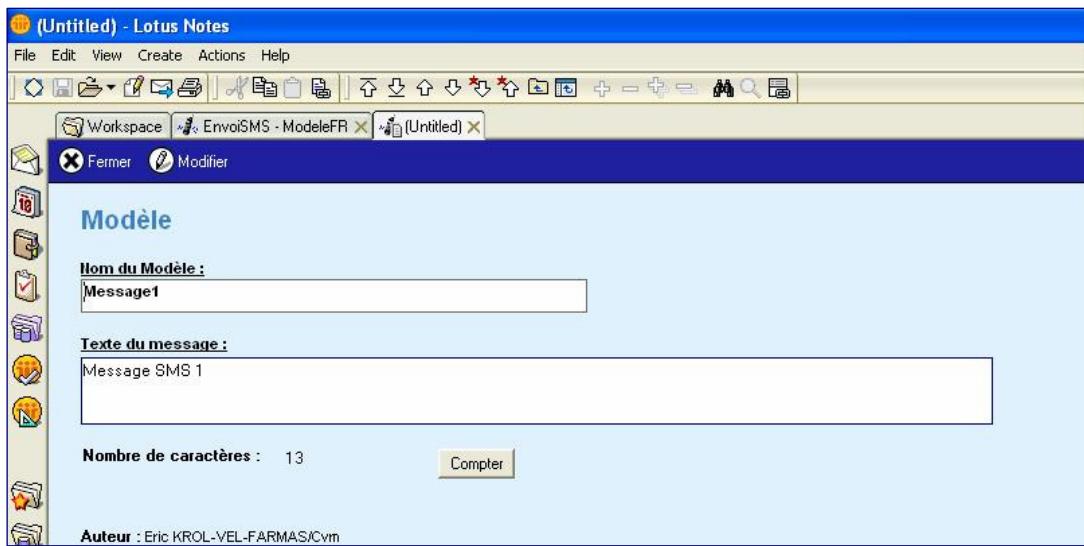
The following window displays :



A model of SMS message composes to him:

- of a title, by which it is identified,
- a text of the model that you create with the editor that is available to this level. You can verify the length of the SMS message using the button "count". It must be inferior or equal to 160 characters.

Example of a modèle :



The name of the author that created the model is indicated in command automatically to each of the models.

8.2.4. Sending of the SMS message

When the list of the recipients, the object and the text of the message is correctly fill, click on "yes". If the character number of the message is upper to 160, a confirmation message appears to pursue or no the sending.

A screenshot of the "SMS-Monitor" software interface. The window title is "Envoyer". The interface includes a toolbar with icons for "Envoyer", "Sauvegarder", "Fermer", and "Adresses...". A logo for "SMS-Monitor" is visible. The main area shows the following fields:

- Envoyé par :** Marjorie MORNÉT/Cvm
- Date/Heure :** 03/06/2004 10:49
- Destinataires :** DUMOLEYN Patrick [0660424801], BROSSE Adam [0698652147], DUMONT Antoine [06 89 51 25 63].
Buttons for "Ajouter", "Supprimer", and "Modifier" are to the right of the recipient list.
- Objet :** Réunion du 7 Juin
- Classe d'envoi :** Radio buttons for "Immédiat" (selected), "Urgent", and "Planifié".
- Texte du message :** A text area containing the message: "Bonjour Messieurs, je vous confirme notre réunion du 7 Juin à 9h00".
- Nombre de caractères :** 66
Compter button

8.3. Sending of SMS by the client module SMS-note

This present chapter the use of the client module SMS-note that allows helping the users to the sending of messages to the GSM. The chapters that follow explain the configuration in the domino server and the manner of telly distributes the SMS module-note to the users.

This module is not indispensable to send some SMS Lotus Notes but It facilitates grandly this task in filter, for example, the address books and in not presenting that the recipients by having a number of GSM.

In the same way, with this module, the user has not to preoccupy to him a format of the e-mail address to use or the name of domain assigned to the SMS -Monitor server.

Without this module, the user must create a memo and write the address under the 06nnnnn@DOMAINE-GSM form

In command to guide the users simply, CVM created the SMS module-note.

SMS-note is directly available from the specific icon implanted on the right in the bar of the tâches :



Communications et VM SAS

RCS Paris B 331 758 904
SAS capital 152.449,02Euros
10 Cité Beauharnais - 75011 PARIS

SMS-Monitor

Tel : +33 (0)1 43 67 09 03

www.cvm.fr

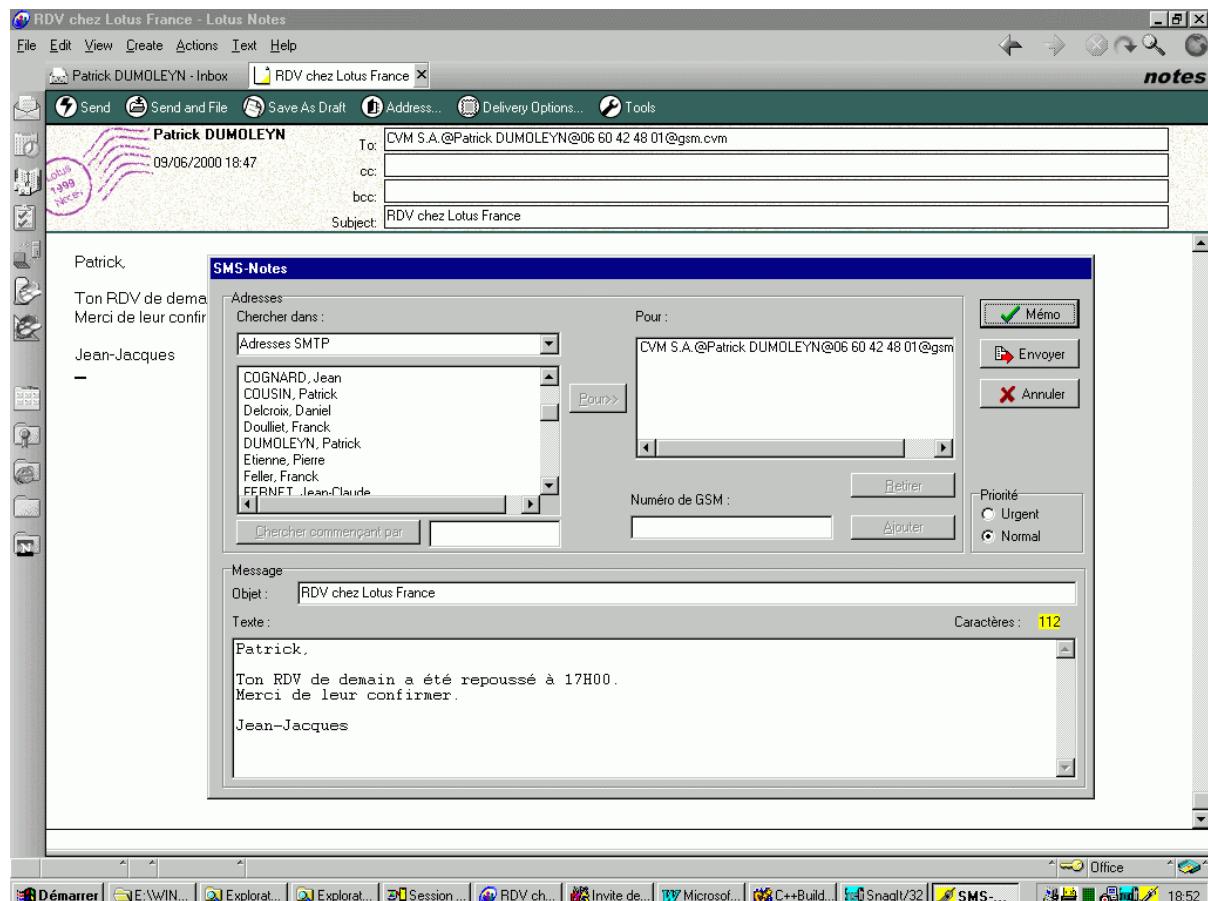
Page 137 sur 189

Even though Lotus Notes is not still rushed on stations it of the user, a double click on this icon initializes it automatically and created a new memo in the mail lower part of the user. instead of double click, It can also click with the straight button of the mouse. A contextual menu open to him then and the user can select «Run SMS-Notes».

N° de GSM@domaine_GSM

The object of the message and the text will be after write like to a normal memo. Of course, if the fastening user of the files, the message will be rejected and the user informed by the receipt of an opinion of check.

Here is the SMS screen-note displayed with the R5 version of Notes Lotus:



With SMS-note you can:

- Selecting directly the GSM numbers of your interlocutors in the standard address books of Lotus Notes. In the zone address only the names of your interlocutors and the zone telephones GSM are occupied in account.
- Therefore can select you a name, his address of cell phone will be automatically turned in the zone to when will click on you "Mémo", if you wish repass by the principal window or when you will click directly on "sending" if you do not wish repass by this one,
- Seizing hit - on - the - fly in the 'numéro' zone of the GSM the number of an interlocutor that is not entered in the lotus address books note.
- This address of cell phone will be automatically turned in the zone to when will click on you "Mémo", if you wish repass by the principal window or when you will click directly on "sending" if you do not wish repass by this one,

- Indicating a class of sending (immediate or urgent) to the SMS message that is under treatment,
- Bringing an object to the SMS message to send. This inquiry will be automatically turned in the "object" zone when will click on you "Mémo", if you wish repass by the principal window or when you will click directly on "sending" if you do not wish repass by this one,
- Executing the seizure of the text in the specific editor to SMS message. A SMS message of standard making contains to the maximum 160 characters.

The number of characters writes presented you permanently in the characters zone of the SMS screen-note.

- If the text passes 160 characters, the Server SMS-Monitor the will cut automatically in "n" modulate of 160 characters before It is addressed to the distant interlocutor. Each module will be numbered. In this that concerns the yield of a treatment, the subject is accosted below,
- Displaying the entered text in the standard window of the constituting of a new message using the Memo button,
- Sending directly the SMS message from the SMS window-note clicking on the button "send" without happen by the creation screen of a new message,
- Reading the yields of divided up treatment in the 'courrier in arrival of Lotus Notes,
- Reading the SMS messages received in the 'courrier in arrival of Lotus Notes.

8.4. Follow-up of the emission of the SMS

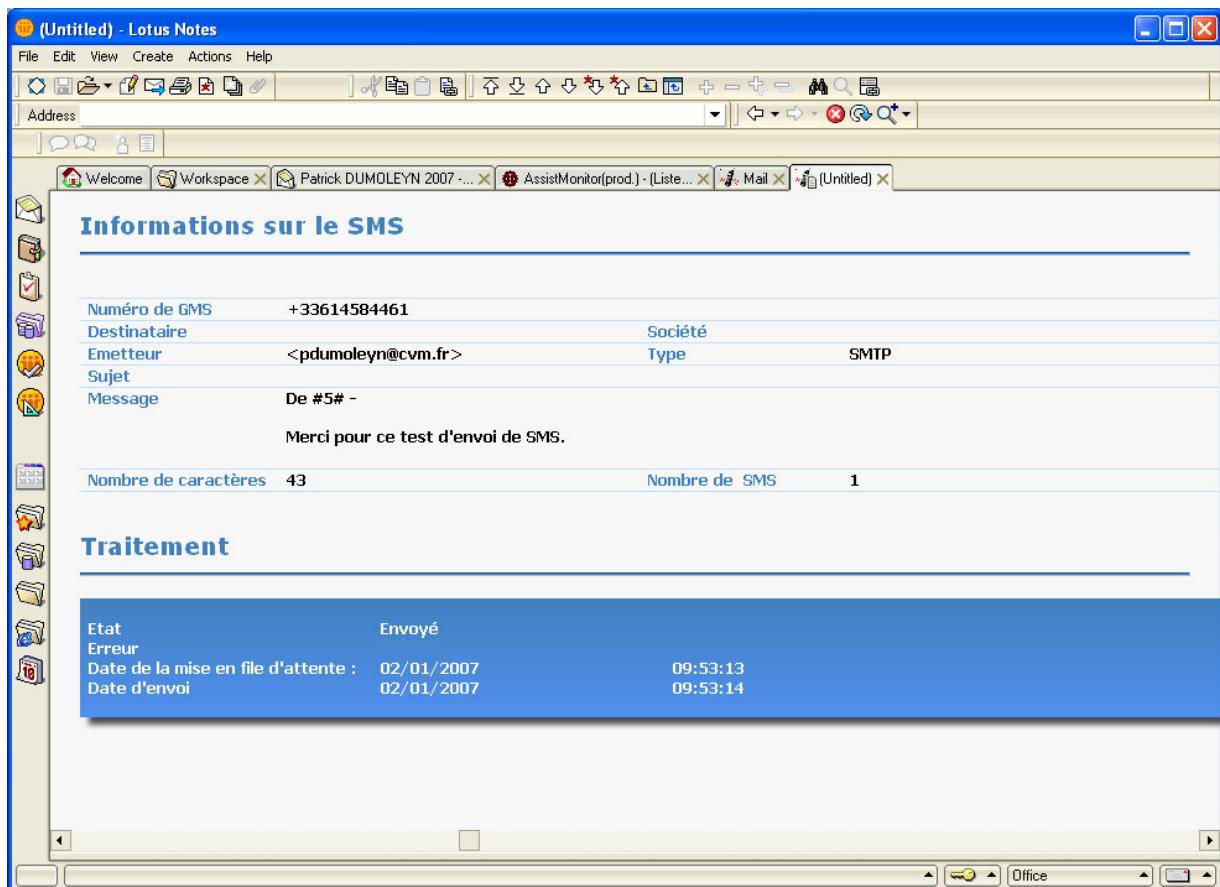
The creation chapter of the lower part of follow-up of the SMS page 146 explains how to create this lower part. It allows having access to all the SMS treated by SMS-Monitor; some is the fashion of submission.

The screenshot shows the Lotus Notes application window titled 'Mail - Lotus Notes'. The left sidebar contains a navigation bar with icons for Home, Workspace, and Mail, along with a search bar labeled 'Address'. Below these are several filter options: 'Par Emetteurs', 'Par Dates' (which is selected), 'Par Etats', and 'Folders'. The main pane displays a table titled 'Nombre de messages' with columns: Date, Emetteur, Type, Etat, Destination, Destinataire, and Société. The table lists several entries categorized by date:

Date	Emetteur	Type	Etat	Destination	Destinataire	Société
▼ 05/01/2007	Batch	Interne	Envoyé	+33662401201		
	05/01/2007 13:11					
	Patrick DUMOLEYN	Notes	Prêt	+33660424801		
▼ 02/01/2007	Batch	Interne	Prêt	+33662064297		
	02/01/2007 19:51					
	<pdumoleyn@cvm.fr>	SMTP	Envoyé	+33614584461		
	02/01/2007 09:53					
	<pdumoleyn@cvm.fr>	SMTP	Envoyé	+33614584461		
▼ 01/01/2007	Batch	Interne	Envoi	+33689870693		
	01/01/2007 15:23					
▼ 28/12/2006	<pdumoleyn@cvm.fr>	Notes	Envoyé	+33672774217		
	28/12/2006 15:33					

The different available sights allow seeing the categorized list by issuer, date of treatment and state.

A double click on an entry of the list allows visualizing the dividing up of the SMS.



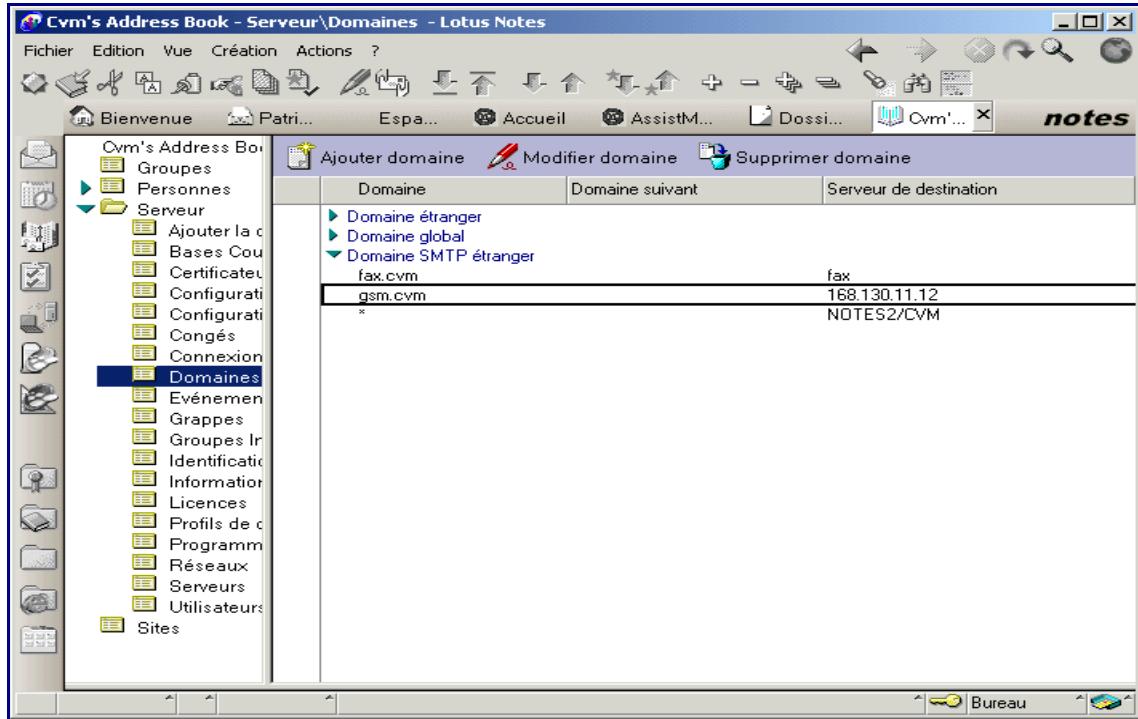
8.5. Configuration of the DOMINO server

The communication between the domino lotus server and the PC executing SMS-Monitor executes to him is by SMTP, is by interfaces proprietor. In any case, the configuration of the domino server must be modified to declare a domain of carrying trade that will be dedicated to the SMS. This domain will be is a SMTP domain, is a foreign domain.

The modifications must be brought by a domino administrator in the public address books (NAMES.NSF). It is not necessities starting again the server so that these are occupied in account.

8.5.1. DOMINO R5 configuration, R6 or R7 to SMTP

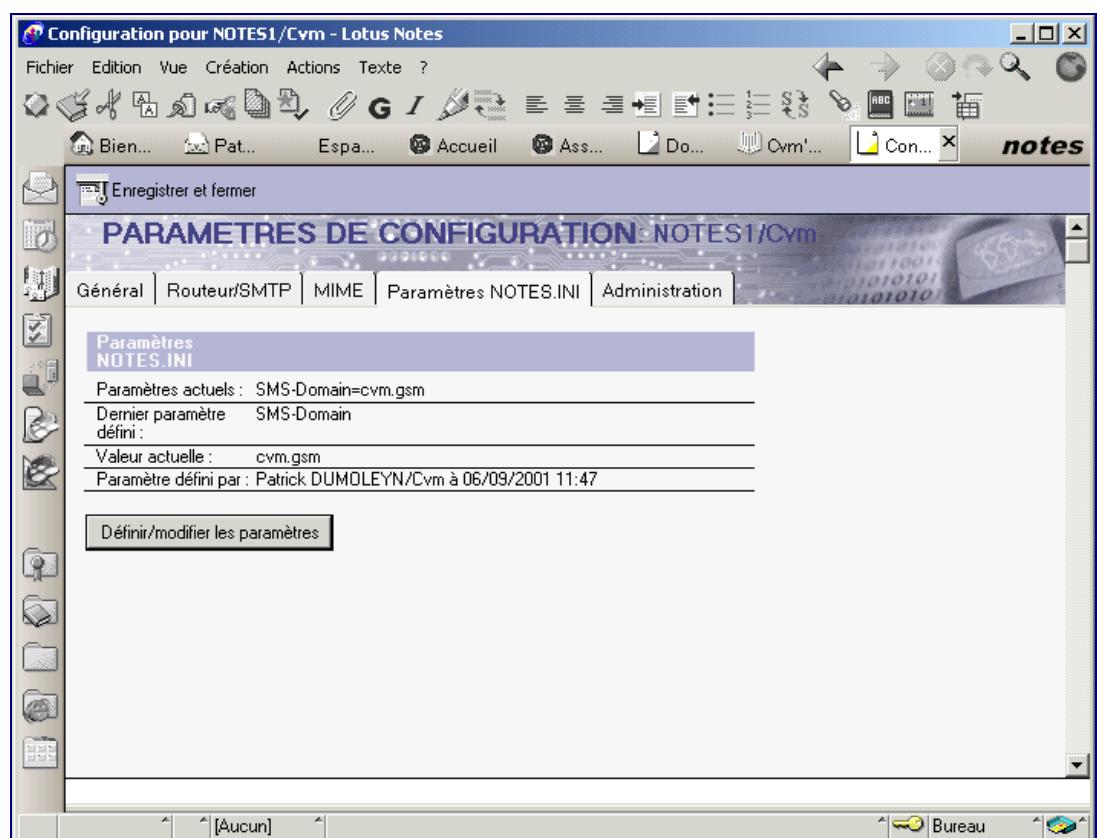
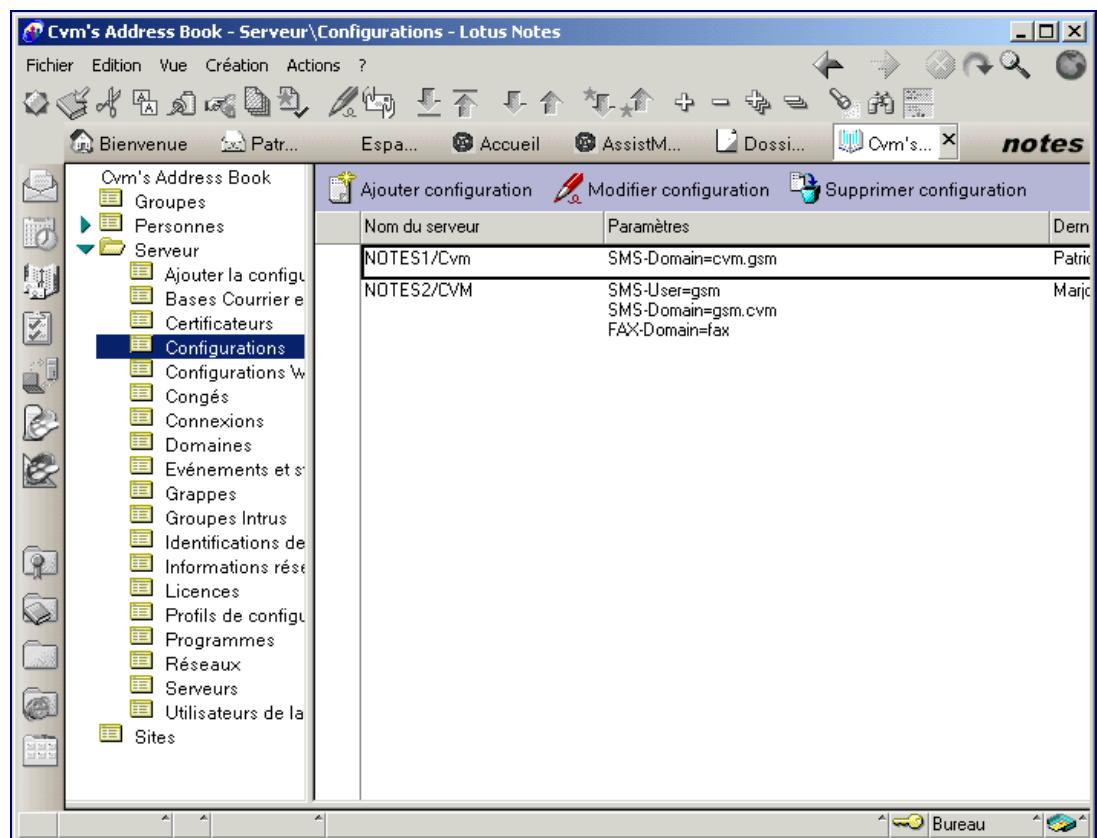
The SMS sending is done via a SMTP domain foreign. It is necessary declaring this SMTP domain in the configuration of the domino server



To that, an administrator must add a document such as this one:

It is indispensable associating this name of SMTP domain with the IP address or the name of host of the PC where functions SMS-Monitor:

In the document of configuration of the server, add the SMS-Domain parameter and give- like value the name of the created GSM domain previously.



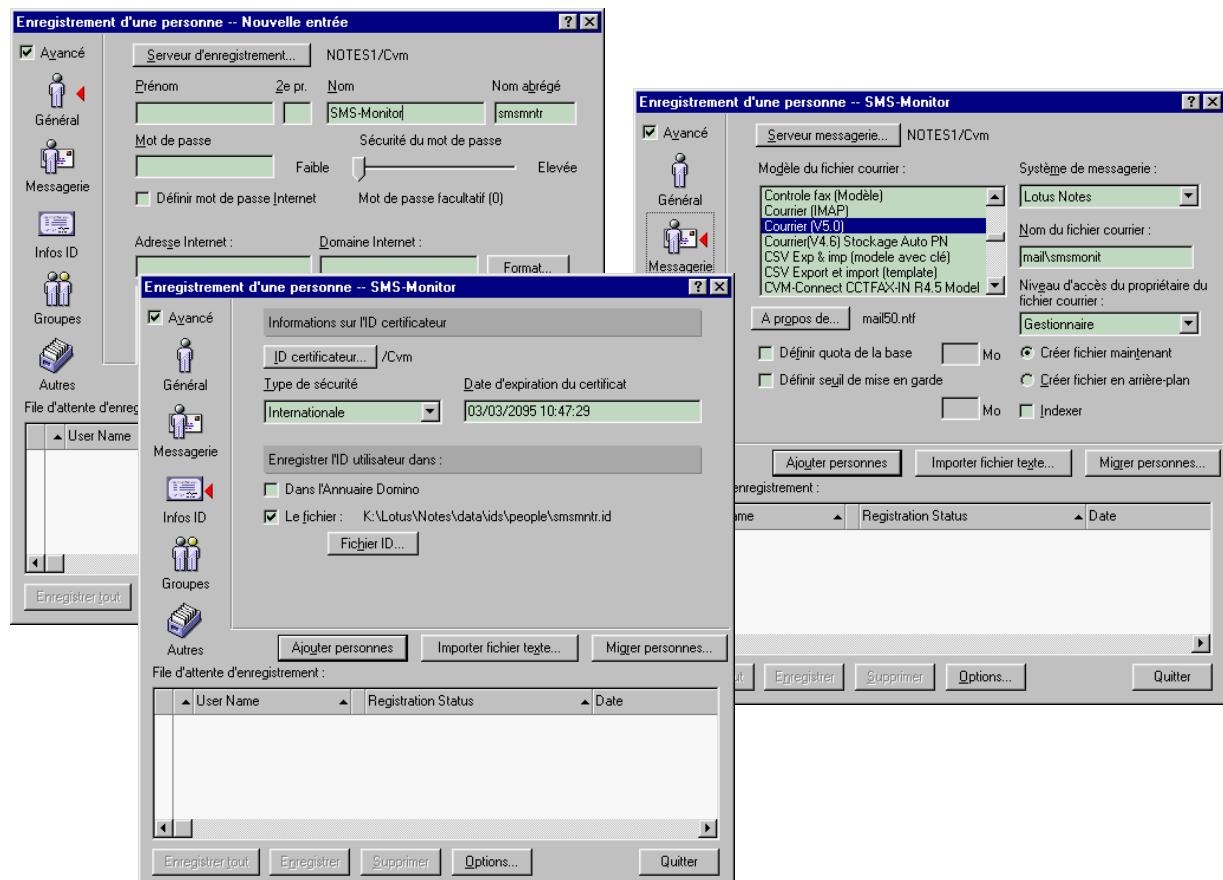
8.5.2. DOMINO R5 configuration, R6 or R7 to a foreign domain

In this configuration, you will :

- recording a new user note dedicated to SMS-Monitor,
- creating the new foreign domain,
- creating the mail lower part note associated to this domain,
- Installing and configure a client note on the SMS PC-Monitor.

To this faire :

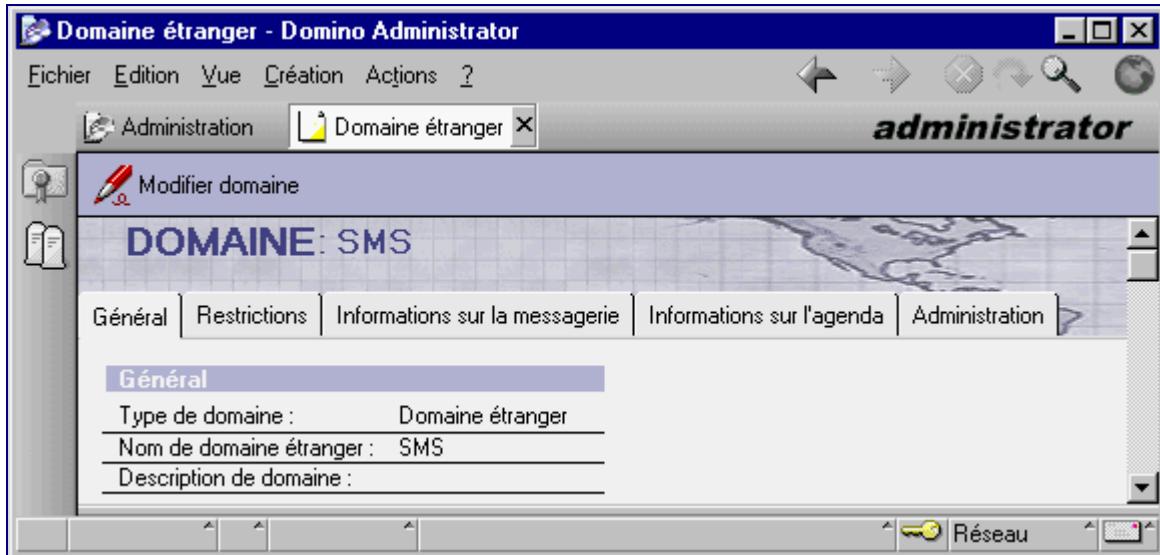
- 1) with the help of the client of administering note, record a new user of carrying trade with the characteristic following :



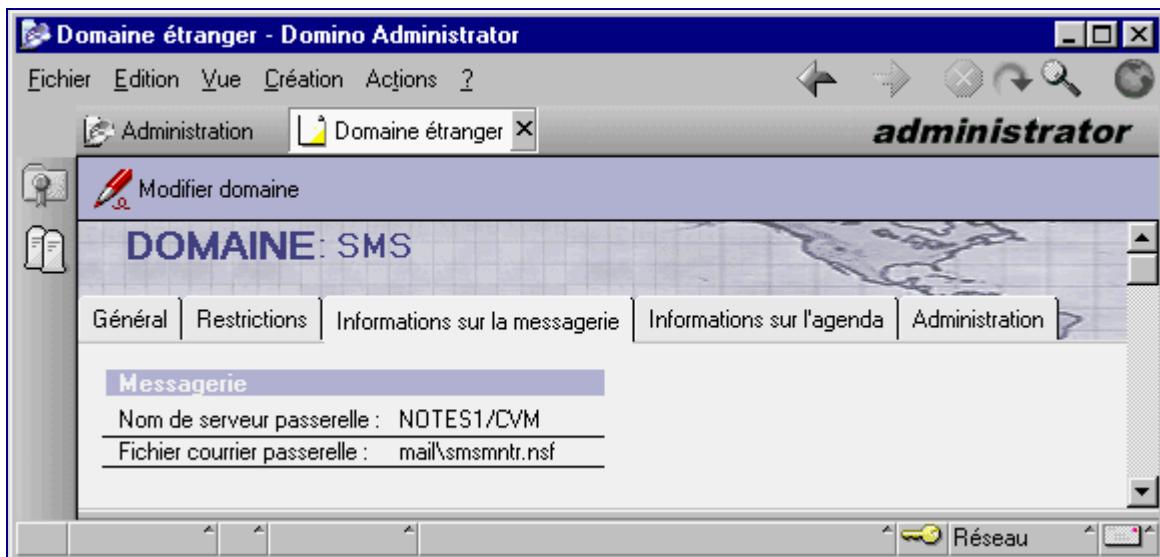
Name	(free)
Password	à white
Security of the password	Putting the length to 0 ; if you write a password, It must withdraws it an ID to the first use.
System of carrying trade	Lotus Notes
Name of the file	(free)
Carrying trade server	Name of the server note that will lodge the base mail of the client note on the one hand and the GSM domain on the other hand.
Model of the mail file	Standard mail V5.0
Type of security	International
Expiration date of the certificate	Think about put a date sufficiently take away to avoid rubble of the SMS client-Monitor, just in case the administrator forgets recertifying the ID in time.
Recording the user ID	Check in the file and provide an ID. filenameVous must compulsorily shoot in the domino annual if you do not provide a password.

Communications et VM SAS

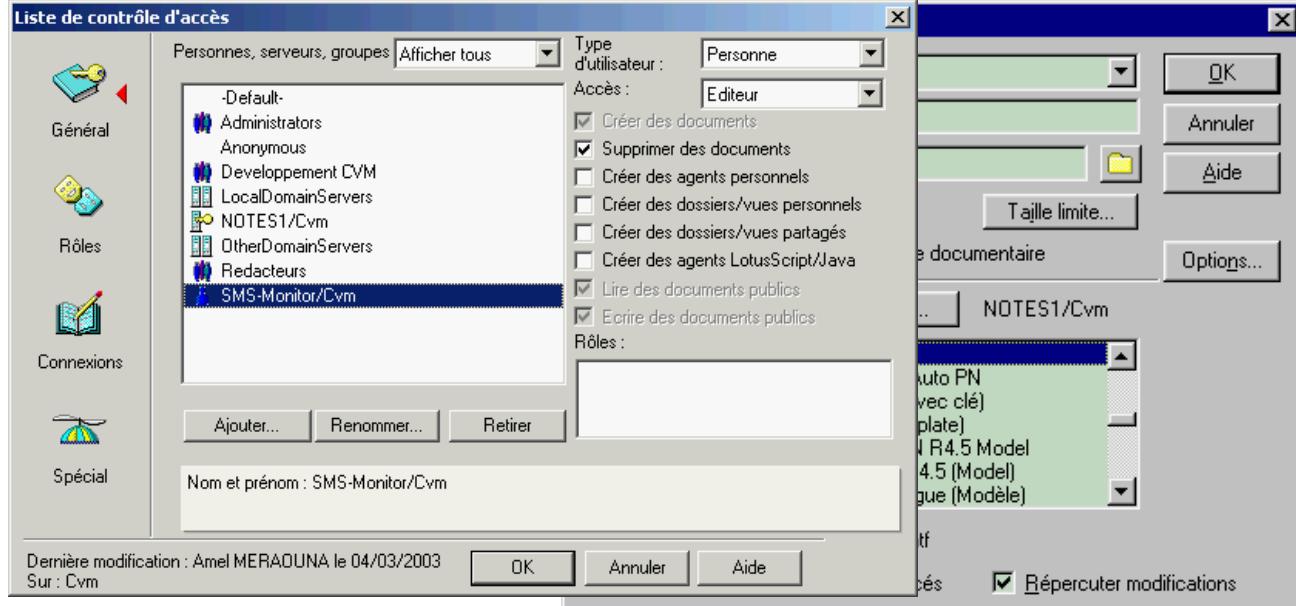
- 2) Open the public address books of the server, on the Server/Domains sight. Create an external domain informing the zone following :



Type of domain	Foreign domain
Name of foreign domain	The name of domain that will be used in the e-mail address that the message is sent to SMS-Monitor. You can indicate, for example, gsm or gsm.société, etc.
Name of footbridge server	Name of the server note that will lodge the associated lower part to the foreign domain. Warning, this server must be the same that the one where resides the mail lower part of the SMS client-Monitor.
Footbridge mail file	Name (and if necessary way) of the lower part note associated to the domain, reside on the footbridge server. This base must be created from a model of standard mail lower part.



- 3) If the footbridge server is NOT EQUAL to the server of carrying trade of the users, verify that the two servers note are in communication well to the step of the letter; if need, create a new document of connection between your different servers.



4) Create the lower part on the footbridge server note, to the emplacement and with the name describes previously. Choose freely the title of the lower part, for example GSM or SMS domain about to leave. Use the model of standard mail lower part.

Add the ID of the client note dedicated to SMS-Monitor in the LCA of this lower part, like Editor to the minimum:

5) In the document of configuration of the server, add the SMS-Domain parameter and give- like value the name of the created GSM domain previously.

6) Install and configure a client note on the SMS PC-Monitor. Use the ID file generated previously. Settle oneself firmly you that the client has access well to the mail lower part of the foreign domain GSM.

8.6. Creation of the lower part of sending of the SMS

This application can be installed on all stations lotus client note, version 4.6 and upper.

The Notes/ Domino server must have a name of domain note foreign or SMTP declared, or a dedicated mail boxes to the SMS server.

A model of the named lower part EnvoiSms.ntf is well stocked you. It has beened copied in the SMS index-Monitor\Notes\Lower part of the SMS computer-Monitor.

This model goes be used to create the lower part of documents. In :

- 1- Copying the model in the Domino index\ Dated of the server.
- 2- Signing the model with the help of the ID of the server.
- 3- Creating the lower part of document. From the workspace of a lotus client, clicks on the menu «File/document lower part/create.... »

In limps her/it of dialogue, select the name of the server and bring the filename to give to the lower part then select the model to use and click on OK.

The icon of the lower part appears then on the workspace.



4- Defining the access control list.

The users must have an Editor access to the lower part with the right of suppression and does not possess any list.

The administrators must be at least Editor and possess the Admin list.

8.6.1. Settings

to the opening of the lower part, in the sight of the «Messages sent», the settings action is accessible to the administrators and permits the opening of a mask allow to read indicate how sort and route the documents towards the SMS -Monitor server.

- If you a pseudo user note and his bases mail have beened created to this effect, select SMS-use and enter his name in the zone "name of the domain".
- If created you a foreign domain note or a SMTP domain, select SMS-Domain and enter the name of the domain (sms or sms.gsm for example) in the zone " name of the domain ".



Communications et VM SAS

RCS Paris B 331 758 904
SAS capital 152.449,02Euros
10 Cité Beauharnais - 75011 PARIS

SMS-Monitor

Tel : +33 (0)1 43 67 09 03

www.cvm.fr

Page 147 sur 189

8.7. Creation of the lower part of follow-up of the SMS

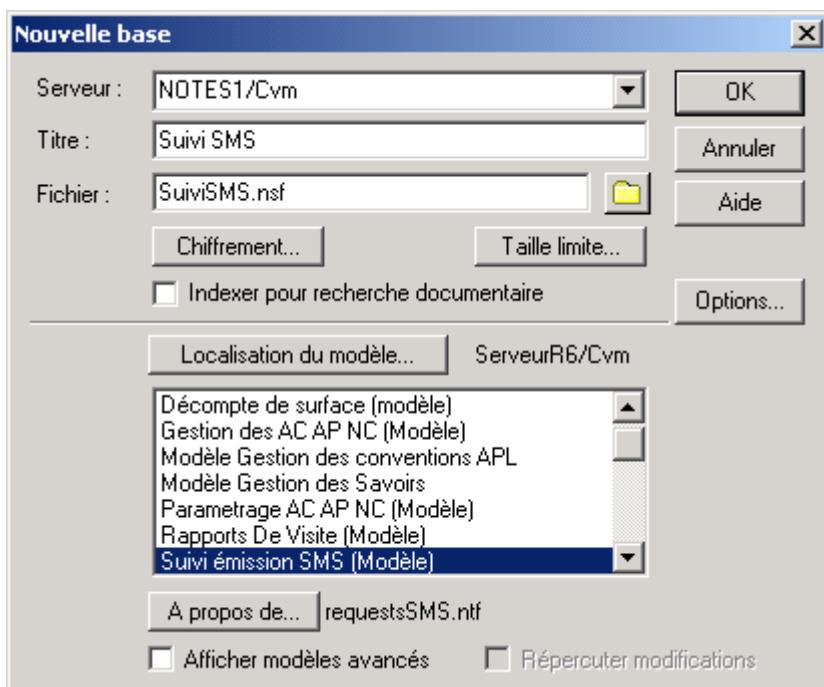
This lower part allows to have a sight of all the SMS broadcasted or under emission, some is the fashion of submission (Lotus Notes, files, database, FTP e-mail, API, etc...).

A model of the named lower part RequestsSMS.ntf is well stocked you. It has been copied in the SMS index-Monitor\Notes\Lower part of the SMS computer-Monitor.

This model goes to be used to create the lower part of follow-up. In :

- 1- Copying the model in the Domino index\Named of the server.
- 1- Signing the model with the help of the ID of the server.
- 2- Creating the lower part of document. From the workspace of a lotus client, clicks on the menu «File/document lower part/create....»

In the first step of dialogue, select the name of the server and bring the filename to give to the lower part then select the model to use and click on OK.



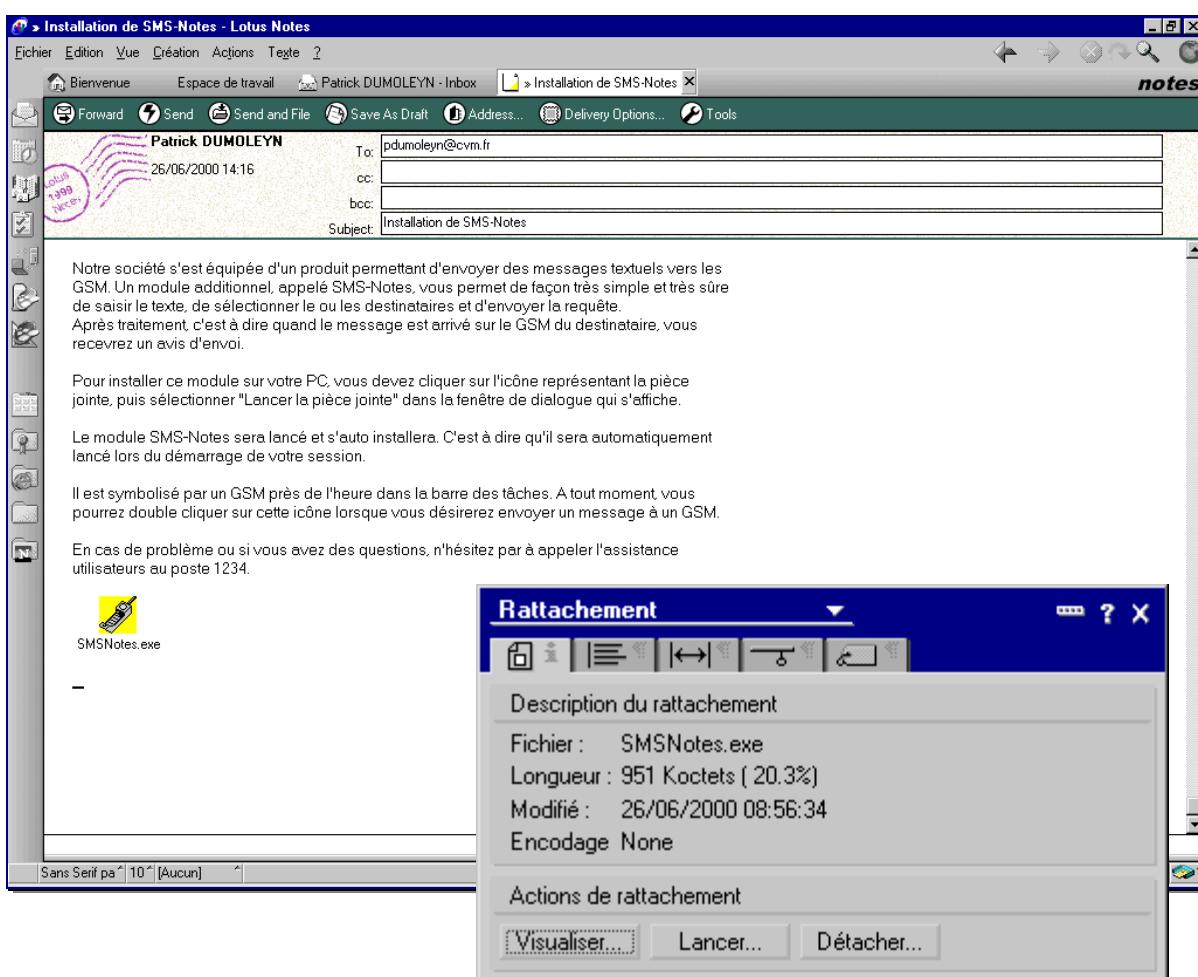
The icon of the lower part appears then on the workspace.



- 3- Defining the access control list. Only the authorized people to have access to the list of the SMS must be declared as reader or Editor depending on whether they will have or no the right eliminating some documents of the lower part.

8.8. Television broadcasting of SMS-note

The client module SMS-note must be rushed to the starting of the Windows session on the station Lotus Notes customers. To install it, It is not necessities intervening on the station clients. It suffices sending to all the concerned users a memo and joining the SMSNOTES.EXE file that is found in the index of installation of SMS-Monitor\Notes. Add an explanatory message indicating the sought after mark, and especially, asking to the recipients executing a double click on the icon representing the attached document, then, in the displayed dialog box by Lotus Notes, clicking on the button « Run the attached piece » :



On the station clients, It is possible at any time uninstalling this module clicking on the icon of the GSM with the straight button of the mouse and selecting «Uninstall SMS-Monitor» in the displayed contextual menu.

8.9. SMS-MailAlert

SMS-MailAlert is a user-interface under Lotus Notes that allows to settings the SMS automatic sending at the time of the receipt of mails in the carrying trade, during the days of absence. Each user can like this define the date or the period during which It will be absent and what received in his carrying trade messages go trigger the SMS sending towards the GSM number specified.

SMS-MailAlert is an application that adds to SMS-Monitor.

8.9.1. Installation

SMS-MailAlert is compound of two parts:

- a bases Lotus Notes of settings
- a module in front of be rushed on the computer where is installed SMS-Monitor.

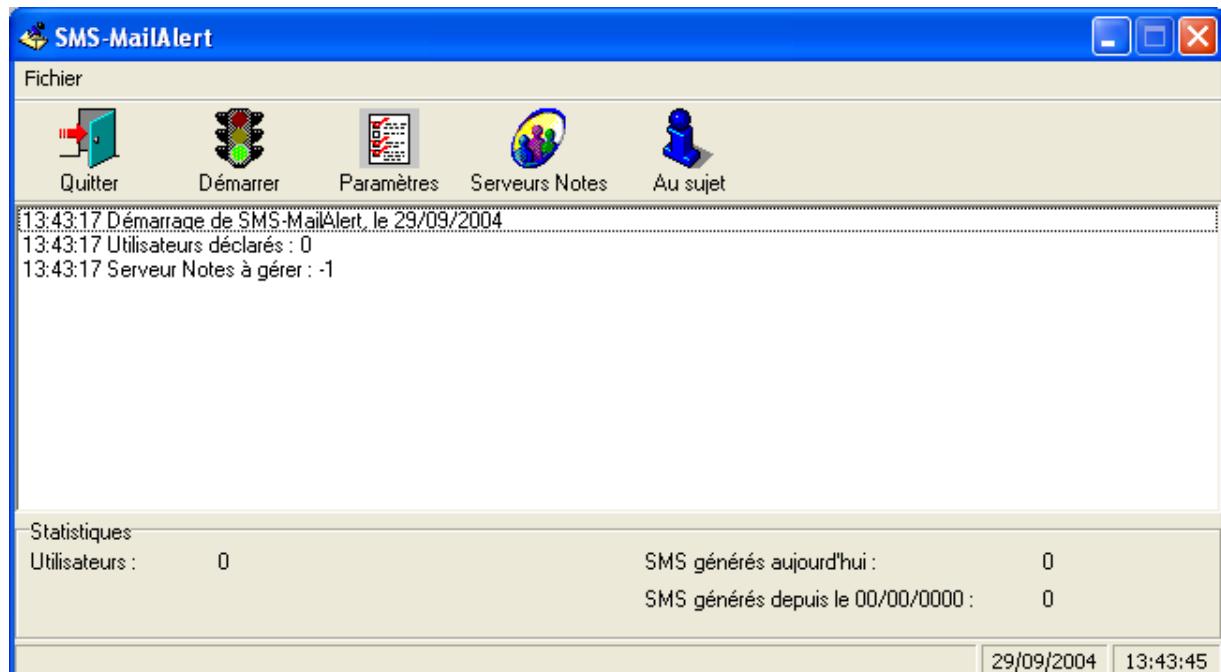
The first step consists to create the lower part of settings of SMS-MailAlert on the server note. To that, It fails use the model lower part SMSMailA.ntf that has beened copied in the SMS index-Monitor\Notes\R5 of the SMS -Monitor server. This model is to the overturn R5 and R6 of Lotus Notes. The name of the created lower part on the server is free.

By default, the authorized users to serve to him of this functionality must be definite like "Editors".

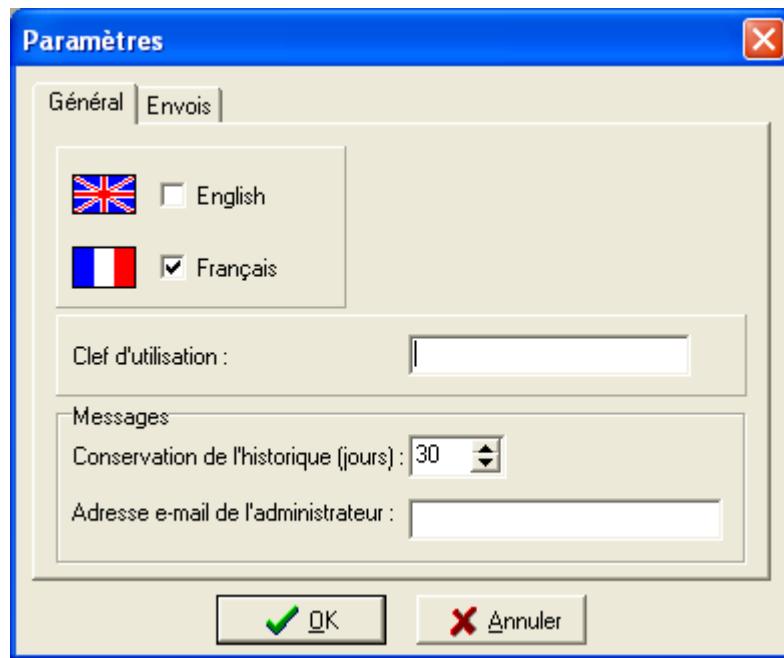
Once the created lower part on the server note, it is necessary executing the module MailAlert.exe that has beened copied in the SMS index-Monitor\Notes of the SMS -Monitor server.

ATTENTION: so that SMS-MailAlert can function. It is imperious that the client Lotus Notes configured on the Server SMS-Monitor has the "Editor" privileges on the base mails of the users desiring do appeal to this application to receive the info's on their messages on their GSM.

When it is rushed, the following window appears:

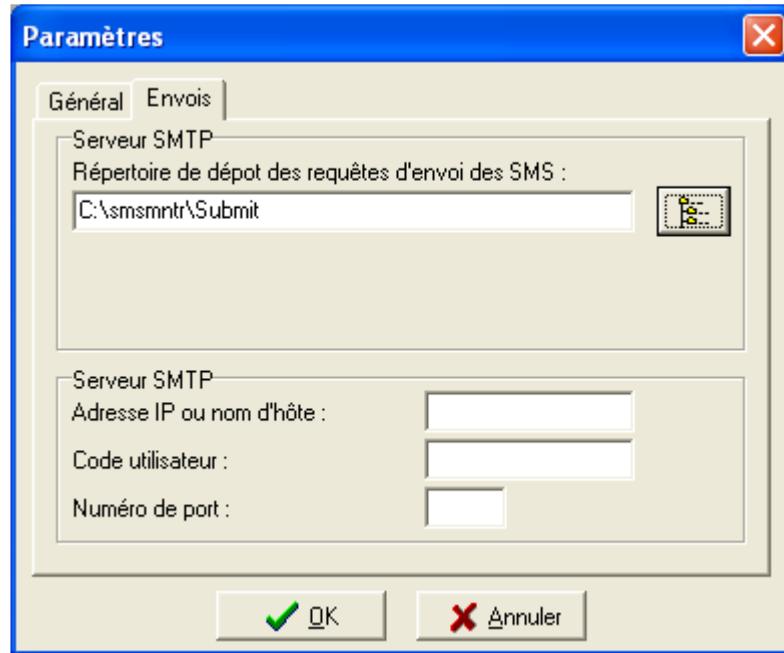


You must first click on the "parameters" button to can write the key of use that has been in communication you by CVM. If you not it has please contact us to the (00 33) (0) 1 43 67 09 03:

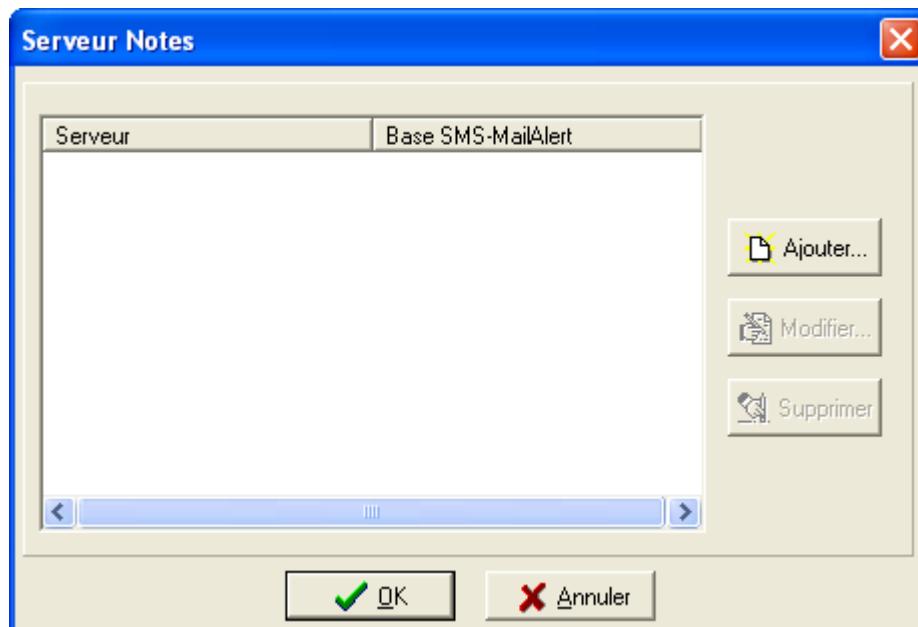


In this dialog box, you can also write the address note or e-mail of an administrator that will be alerted in case of anomalies.

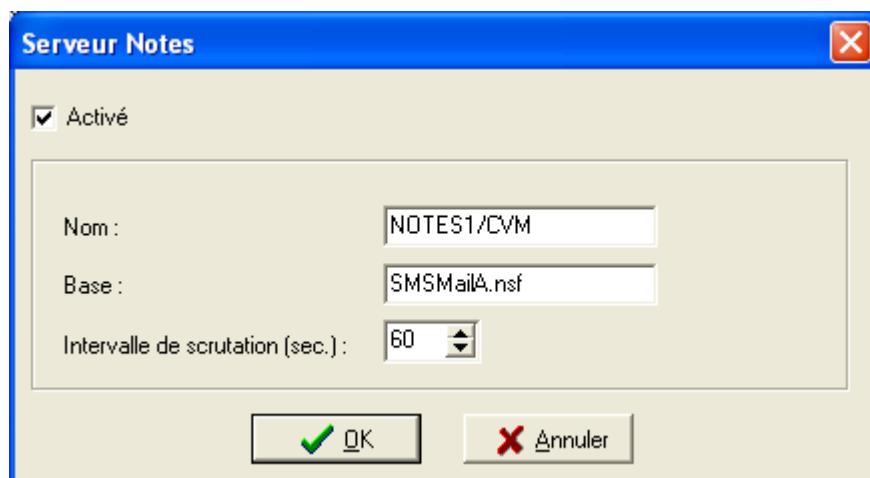
The "sending" tab allows to select the index in which the requests of sending of SMS will be generated so that the Server SMS-Monitor detects and the stretch. As a general rule select the SMS index-Monitor\Submit.



You must after click on the button "servers note" to declare the or the base SMS-MailAlert created like indicated above.



It is possible to declare several lower parts finding if necessary on the different servers. Click on "add" to declare the lower part that you occur creating:

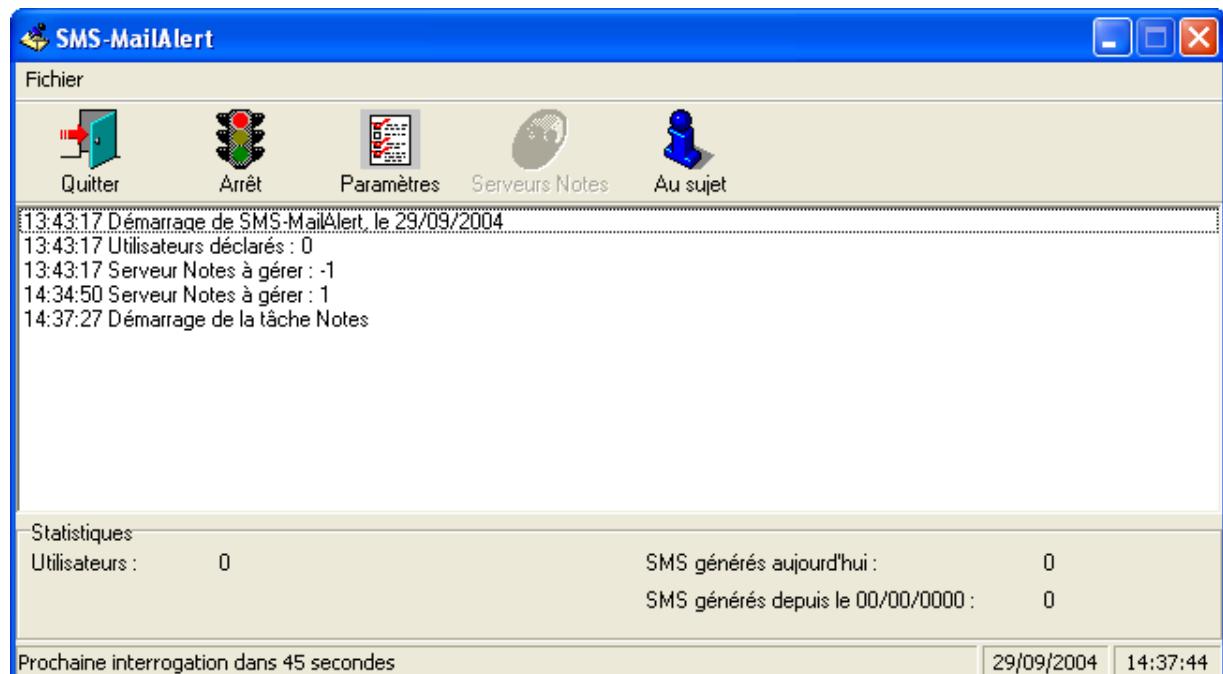


You must indicate the name of the server note and the name of the created SMS-MailAlert lower part. If it finds to him in a subdirectory of the data index on the server note, it fails the indicate.

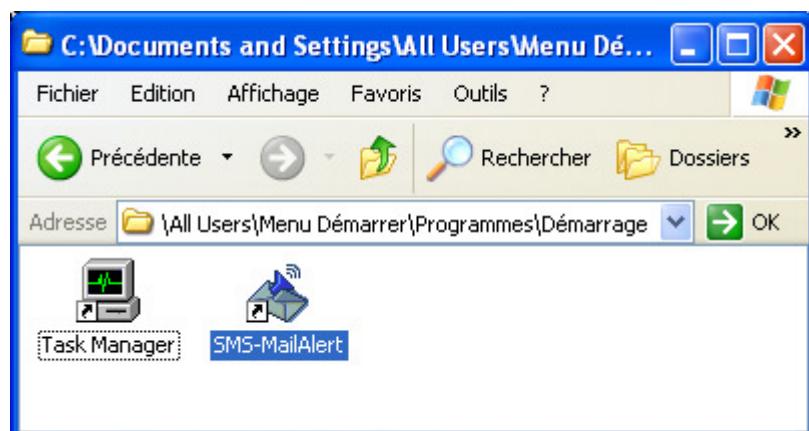
You can adapt the interval in seconds between two tests again messages.

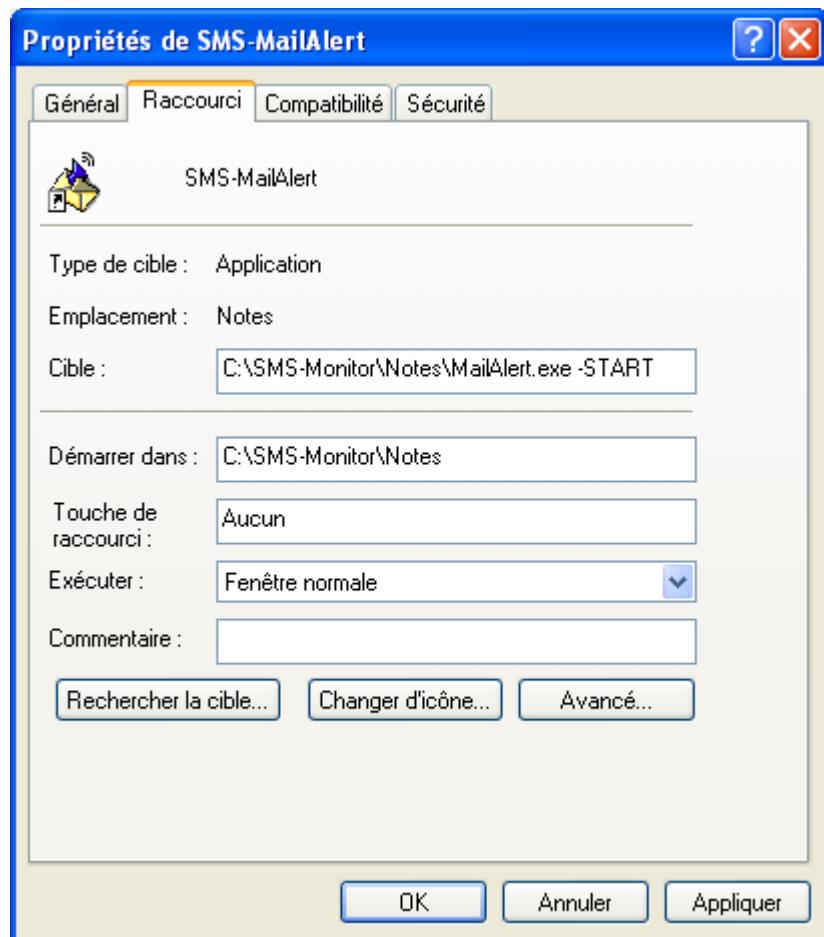
Finally, the hut to check "activated" permits, in the shooting, keeping the declaration of the lower part without SMS-MailAlert not there has access.

After declared the base SMS-MailAlert, must it click on you button starts so that the application begins to test the presence of memos in front of is treated.



That SMS-MailAlert is automatically executed to the opening of the Windows session, must also add you an abridgment on this module in the group of Windows starting. Besides, it is necessary that It is rushed with the –START parameter that It has access to the base note without must click on the button start. To that, modify the parameters of the abridgment in the starting group like indicated below:





8.9.2. SMS-MailAlert lower part

The lower part of settings created and declared more high must be open by the users desiring am informed of the arrival of messages in their mail on their GSM. It their serves to indicate when the arrival again messages must be tested and what is the criterions that must trigger the sending of a SMS.

8.9.2.1. Structure of the application

To the opening of the lower part, each user has access directly to a document of settings that s is personal.

At the time of the first use, the document won't contain that the user name, his number of GSM (recovered in the notebook of address if this zone is effectively full) and the defaults to certain of the zones of choice.

At the time of the following uses, the document of settings that is opened will contain all the values recorded at the time of the last save of the document.

8.9.2.2. Definition of the parameters

The document of settings contains the zone following :

- The user name
- The date and the hour of division
- The date and the hour back

Communications et VM SAS

- His (or his) number (s) of GSM
- Several zones allow to what define is the messages that must trigger the sending of SMS and the contents of the SMS.

The screenshot shows the 'SMS-MailAlert' application window. At the top, there are 'Fermer' (Close) and 'Enregistrer' (Save) buttons. Below the title, there's a logo for 'SMS-Monitor' featuring a computer monitor and a mobile phone. The main form contains the following fields:

- Nom :** Marjorie MORNET
- Date de départ :** 14/06/2004 16 Heure : 09:00
- Date de retour :** 25/06/2004 16 Heure : 18:00
- Numéro(s) de GSM :** 1 0688665179
 2

You souhaitez :

- être informé de la réception de ces messages : Messages urgents
 Messages provenant des émetteurs désignés
 Messages contenant les mots désignés dans l'objet
 Messages contenant les mots désignés dans le texte
- ne pas être informé de la réception de ces messages :

Recevoir l'objet et le début du message **Recevoir tout le message**

Liste des émetteurs : Adam BROSSE/Cvm
Alain MARTIN/Cvm

Liste des mots devant être contenus dans l'objet du message : client téléphone urgent

8.9.2.3. Definition of the period of absence

A zone allows defining the date and the hour of division and another the date and the hour back. The hours of division and back are optional. On the other hand, the two dates are obligatory bus the SMS generation won't be effective that during the like this definite period.

To bring a date, click on the grey square on the right of the zone, a calendar appears allowing to select you a date (of the arrows allow to make scroll month). Proceed a same making to define the hours.

8.9.2.3.1. Definition of the GSM number to use

You have the possibility defining two telephone numbers but only, the one that will be checked will be used.

The first number is definite automatically from the peg of the ID user in the address books if the zone including his number of GSM is full. This number is designated by default like being the one to use.

A second zone allows to you enter to the keyboard another number.

Some radio buttons numbered 1 and 2, placed to the warped thing of the numbers allows checking the one that must be used at the time of the sending of the SMS.

8.9.2.3.2. Definition of the messages by triggering the SMS sending

You can first of all choose if want to be experienced you of the receipt of the messages answer to the criterions that will be definite, else not is informed of the receipt of these messages, that is-to-say is experienced of the receipt of all the messages except those answer to the criterions.

You can after define the selection criterions of the messages.

Five choices are possible:

Vous souhaitez :	
<input checked="" type="radio"/> être informé de la réception de ces messages :	<input type="checkbox"/> Tous les messages
<input type="radio"/> ne pas être informé de la réception de ces messages :	<input type="checkbox"/> Messages urgents
	<input type="checkbox"/> Messages provenant des émetteurs désignés
	<input type="checkbox"/> Messages contenant les mots désignés dans l'objet
	<input type="checkbox"/> Messages contenant les mots désignés dans le texte

- 1. All the messages : this choice is exclusive.** You will be experienced of the receipt of all your mails. If you check this box, the other choice will be masked. They will be unmasked if you shoot the hut.

The four choices that follow can be combined :

- 2. Urgent messages**

- 3. Messages proceeding of the issuing designed: if you check this box, a zone allowing constituting the list of the issuers appears underneath.**

If have chosen you being experienced of the receipt of the messages answer to this criterion, all the messages proceeding of one of the definite issuers in the generate list the sending of a SMS.

If have chosen you not of be experienced of the receipt of the messages answer to this criterion, you do not receive of SMS when a message will proceed an of these issuers. You will receive a SMS in the other case.

- 4. Messages by containing the specified words in the objet: if you check this box, a zone allowing constituting the list of the words appears.**

If have chosen you to be signals of the receipt of the messages answer to this criterion, all the messages containing one of the defined words in their object will generate the sending of a SMS.

If have chosen you not of be experienced of the receipt of the messages answer to these criterions, you do not receive of SMS when a message will contain the an of these words in the object. You will receive a SMS in the other case.

- 5. Messages by containing the specified words in the text of the message: like previously, if you check this box, a zone allowing constituting the list of the words appears.**

If have chosen you being experienced of the receipt of the messages answer to this criterion, all the messages containing one of the defined words in the text of the message (enclosed object) will generate the sending of a SMS.

If have chosen you not of be experienced of the receipt of the messages answer to this criterion, you do not receive of SMS when a message will contain of these words in the text. You will receive a SMS in the other case.

8.9.2.3.3. Definition of the contents of the SMS

You can choose receiving is solely the object and the first turn of the text of the message else is receive the message wholly, by ticking the box the other of these two choices.

This application can be installed on all stations lotus client note, version 4.6 and upper.
The application is bilingual (French/English).

9. SMS-MONITOR ET MS-EXCHANGE

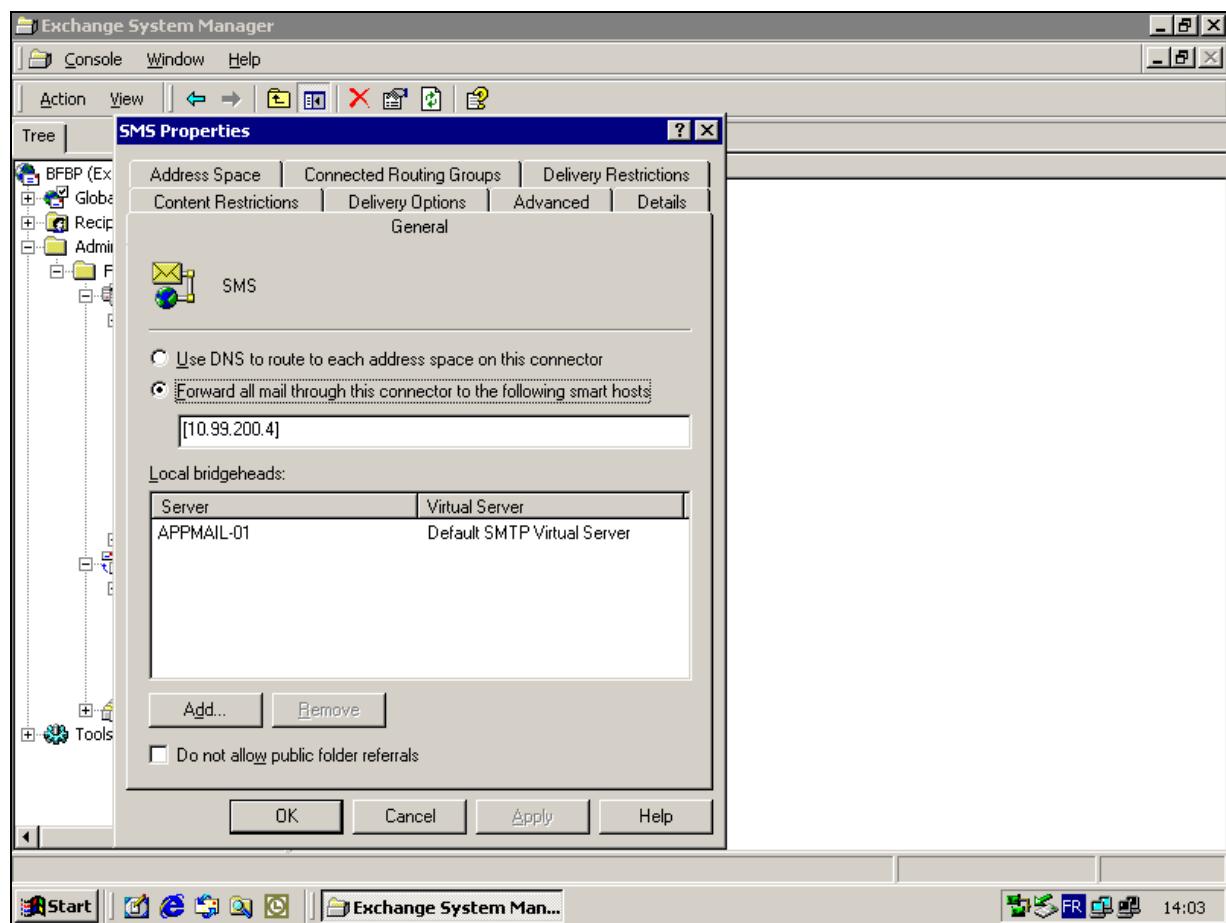
SMS-Monitor interfaces very easily with a MS-Exchange server and permits like this to the Outlook users express and MS-Outlook sending and receiving of the SMS messages.

9.1. Configuration of an Exchange 2000/2003 server

The communication between the MS-Exchange server and the Server SMS-Monitor executes to him in SMTP. That requires that the MS-Exchange server is configured with a SMTP connector. To configure the interface with SMS-Monitor, It suffices following the following stopping place.

Start the System program manager of MS-Exchange.

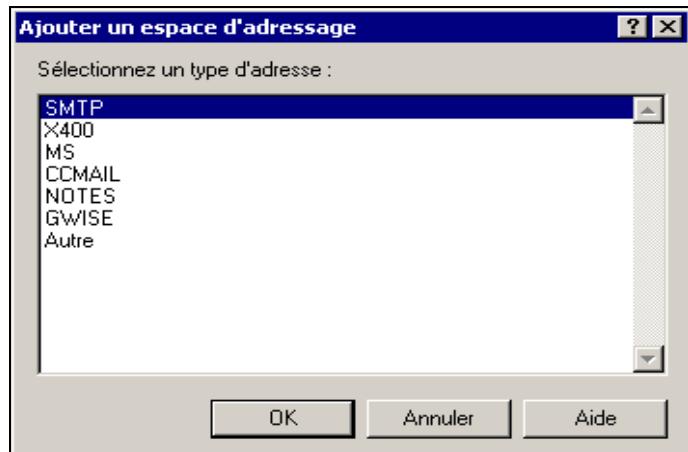
Create a SMS connector in the configuration of the Exchange servers, calling upon the new function| SMTP connector since the connector's element of the arborescence (by a |click|-straight or by the action menu):



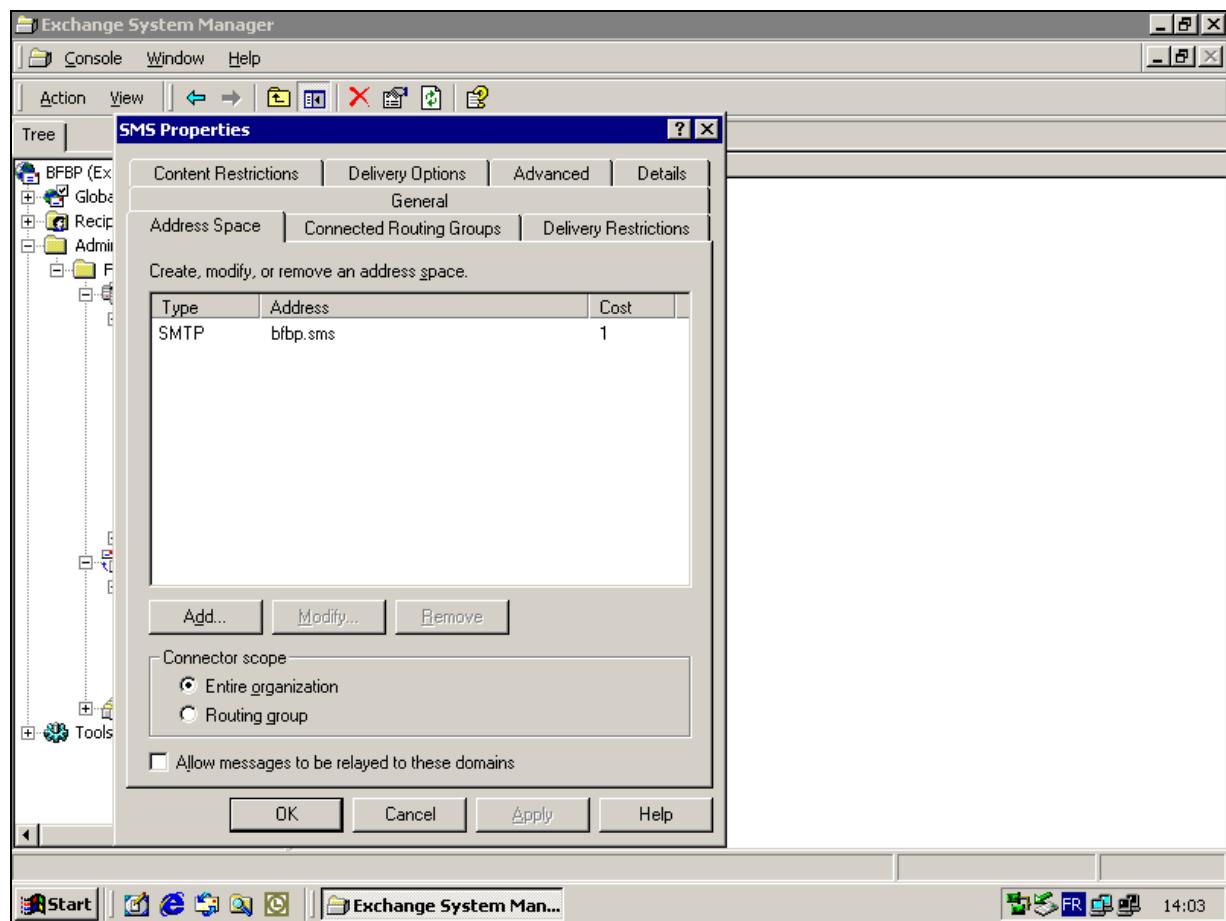
In the general tab, indicate the name of the connector, then the name of the host where functions SMS-Monitor, else his addresses IP between hooks, by ticking the box the choice transfer all the mail via this connector...

Click after on add and select the potential server SMTP by default of the Exchange server that will serve of local bridge. It concerns to him a SMTP server potential that is already used to exchange the e-mails via Internet.

In the space de addressee tab, click on Add...:



Select SMTP and clicks on OK. Then write the name of SMTP domain to use to the SMS sendings; this name must compulsorily include a point:



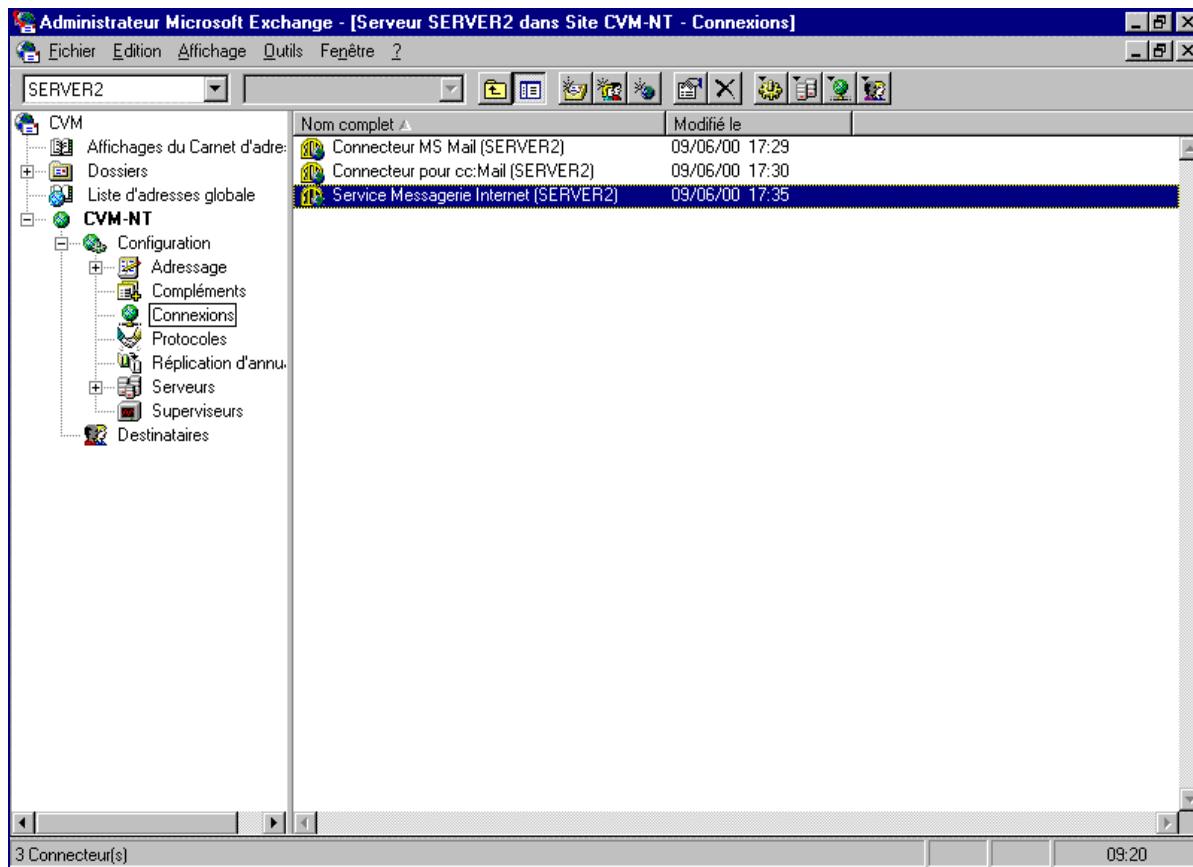
Close again all the windows of Exchange configuration clicking on OK.

From that time onwards, all the e-mails addressed to the domain like this created will be sorted and route towards the SMS -Monitor server. For example: 0612345678@bftp.sms.

9.2. Configuration of an Exchange 5.5 server

The communication between the MS-Exchange server and the Server SMS-Monitor executes to him in SMTP. That requires that the MS-Exchange server is configured with the connector « Service Internet carrying trade ». To configure the interface with SMS-Monitor, It suffices following the following stopping place.

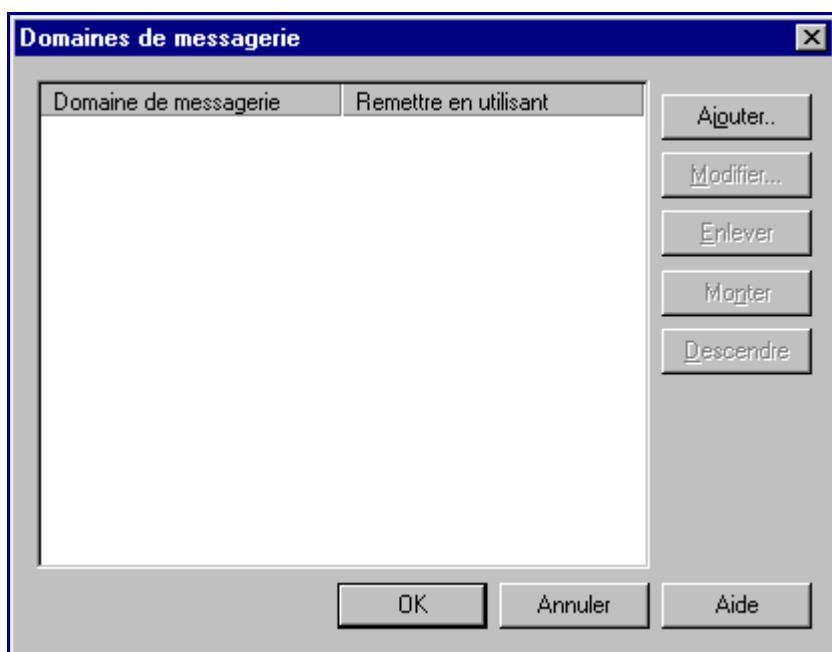
Start the application of administering of MS-Exchange. To the domain and the concerned server, select the icon « Connexion », then in the right-hand, double window-click on « Service Internet carrying trade »:



Select the tab « Connexions ».



Click after on the button «Domaine».



Communications et VM SAS

RCS Paris B 331 758 904
SAS capital 152.449,02Euros
10 Cité Beauharnais - 75011 PARIS

SMS-Monitor

Tel : +33 (0)1 43 67 09 03

www.cvm.fr

Page 160 sur 189

Click on the button «Add»



In the zone «Domain of messenger», enter a name of domain that will tally to the SMS -Monitor server. It must at least include a dawns. We suggest you choosing a name of speaking and easy domain to memorize by the users, such as gsm.société.

You must after indicate to MS-Exchange how find the IP address tally to this domain. If added you a registration of host type and a registration of MX type in the configuration to your DNS server, can select you «Use the service of name of domain».

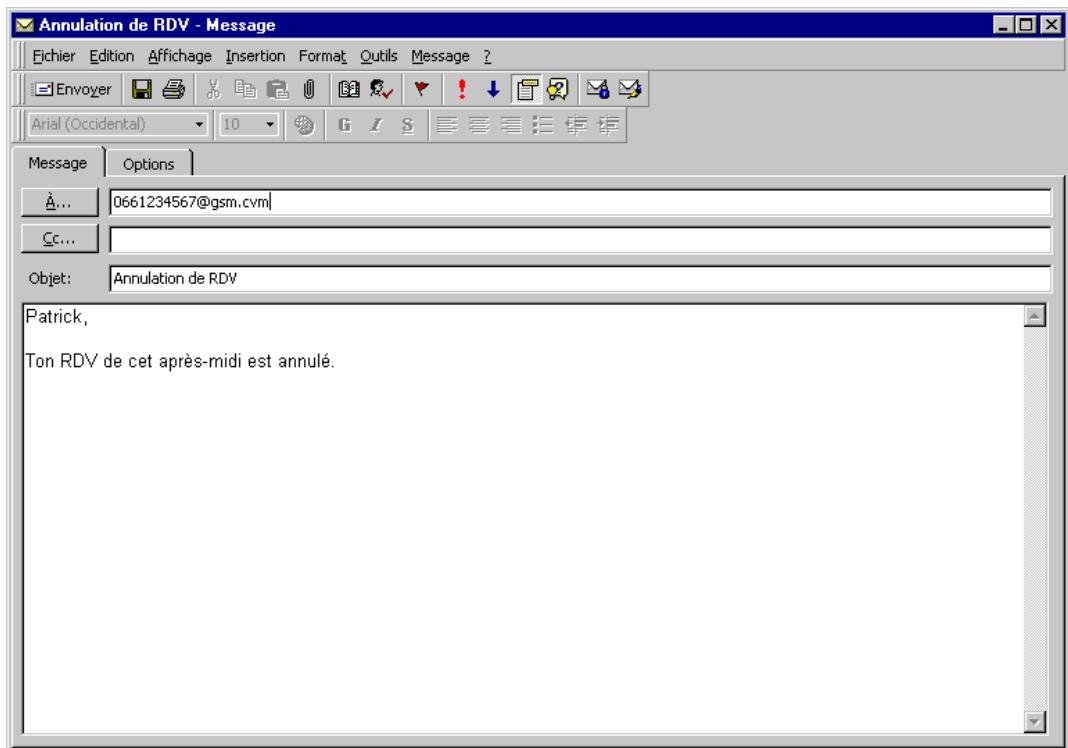
In the negative, select «Transferred all the messages to this domain to the host:» and in the corresponding capture area, write the IP address or the name of host of the PC executing the SMS - Monitor server. In the case of a name of host, It fails Of course, that the MS-Exchange server is capable finding the IP address according to the name, via the HOSTS file, the DNS server, WINS or DHCP. To be settling oneself firmly, It suffices, on the MS-Exchange server, opening a window of command and execute a |ping| indicating the name of host.

After saved this modification and close again all the windows, it is registered starting again the service «MS-Exchange: Internet carrying trade».

9.3. Sending of SMS without |add|-we

As soon as the configuration has been modified, the Outlook users express and MS-Outlook having access to the MS-Exchange server can send some SMS messages to the GSM.

To that, It their suffices seizing a message and seizing the address of the recipient under the form
Numéro-de-GSM@domaine-GSM



The GSM number can indifferently be entered in French format (06nnnnnnnn) or international (336nnnnnnnn). The name of the GSM domain is the one that has been declared in the MS-Exchange configuration.

Other recipients can, Of course, be recipients of the same message.

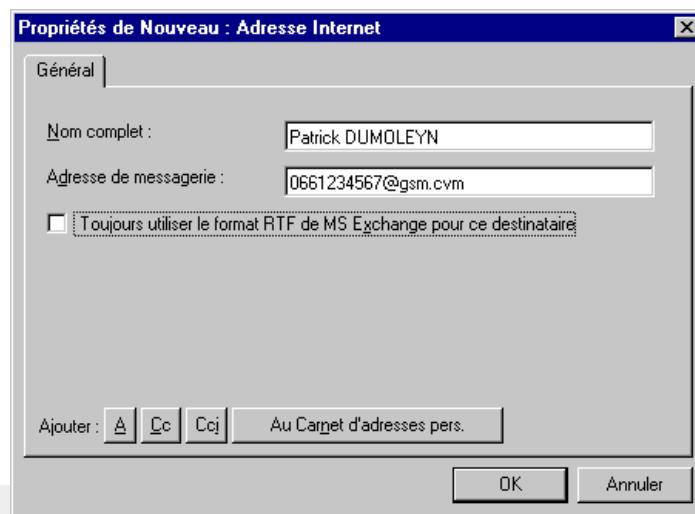
On the other hand, you must not join to file and must avoid you to send some too long messages bus a SMS message is limited to 160 characters and if the message is more long, SMS-Monitor must send several SMS, this that increases the cost of the message.

Besides, the number of SMS necessary to send a message is limited by the server that rejects all messages by passing this boundary.

Like all addresses Internet, can memorize them you in the address books.

Later on, that the message has been correctly broadcasted or rejected, the user will receive a yield of treatment in his mail.

9.4. Sending of SMS with SMS-Outlook



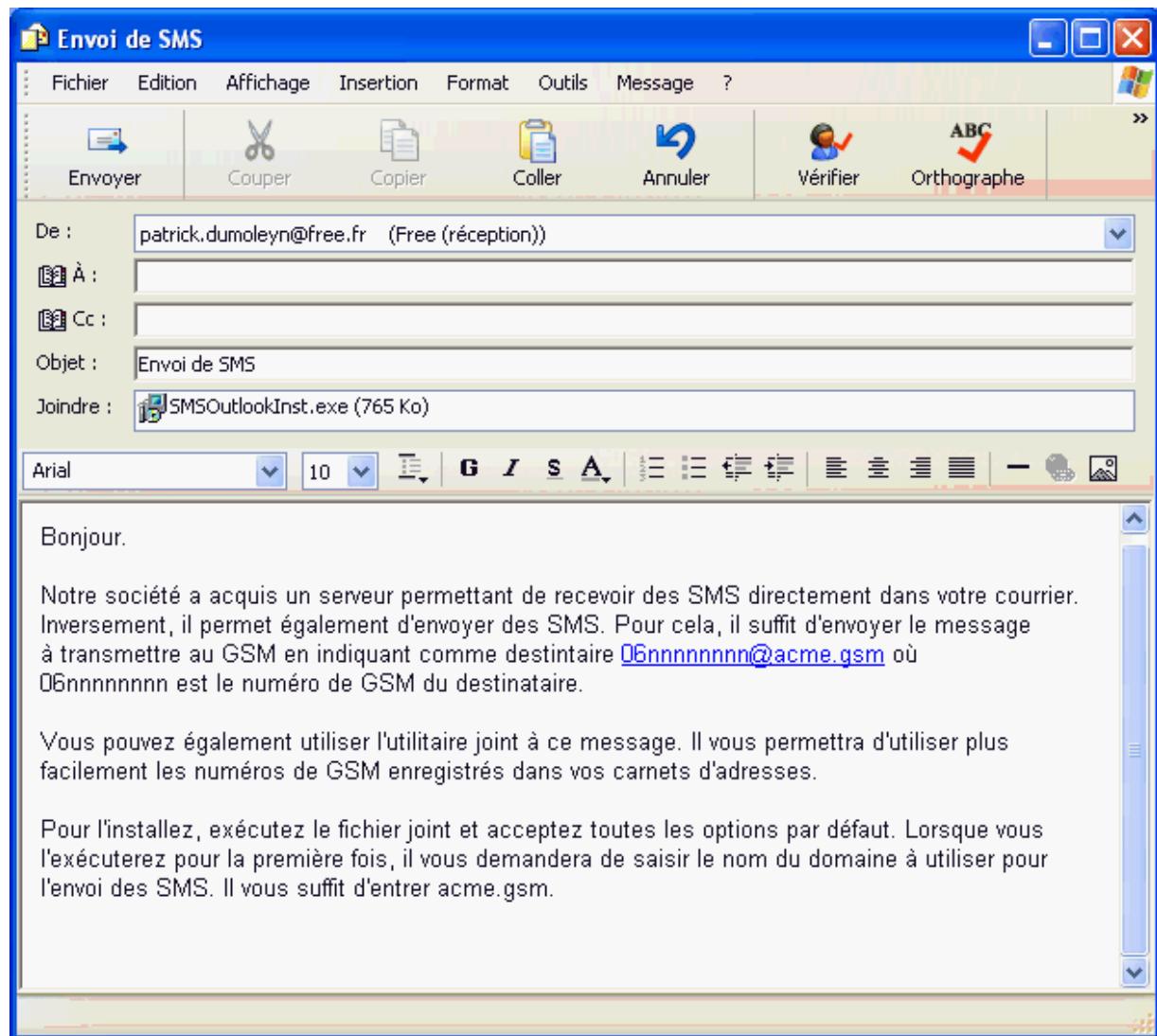
SMS-Monitor integrates the |add|-we SMS-Outlook to the Outlook users. It their allows to send a SMS to a GSM that the bearer finds to him in an Exchange address books extremely simply.

9.4.1. Spreading out of SMS-Outlook

SMS-Outlook present under the form of a modulates car-[installable]. It suffices sending it in attached document of a message to the concerned users in their explaining in the message the list of this module and in their asking of double clicks on the icon of the file.

It concerns to him of the SMSOutlookInst.exe file that is created in the index of installation of SMS-Monitor.

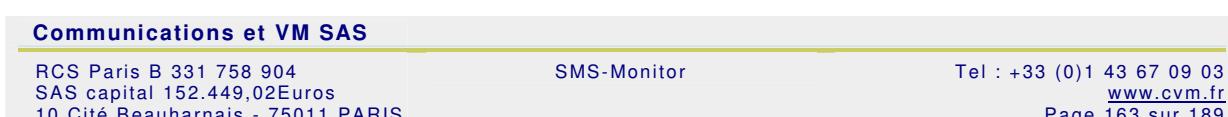
Example of message to address to the users (supposing that the SMTP domain to the SMS is acme.gsm):

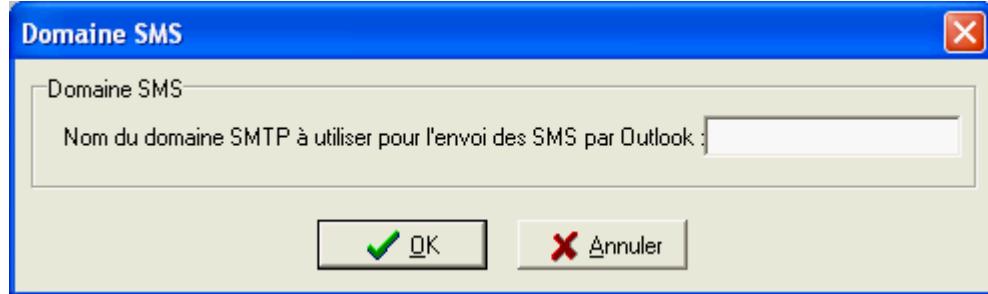


9.4.2. Use of SMS-Outlook

After executing the known how module his computer, and after each resurgence, the SMS-Outlook application is automatically momentum. It is materialized by the following icon below on the right, close to the time. A straight click on this one opens a contextual menu proposing sending a SMS.

At the time of the first use the following dialog box appears:



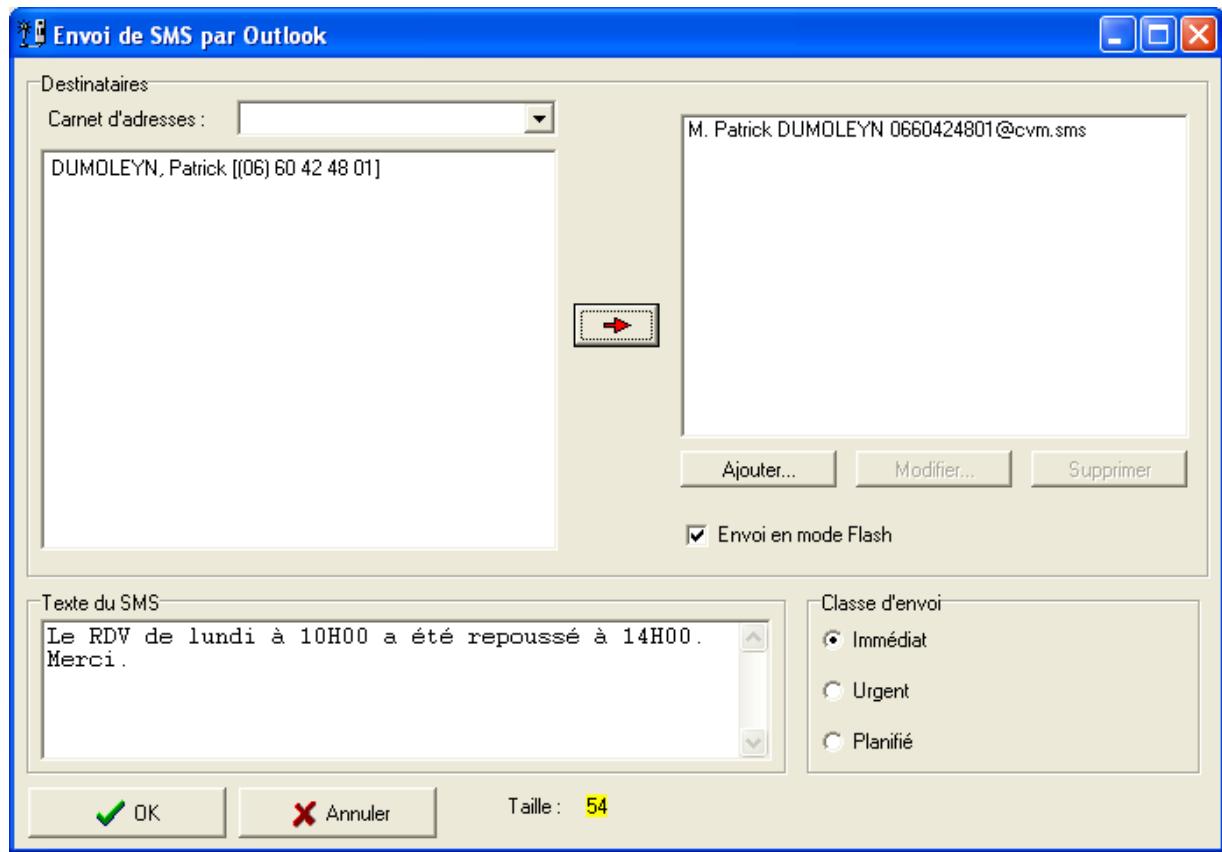


The user must then write the name of the SMTP domain that has been created to the sending of the SMS in the configuration of the Exchange server. This inquiry is memorized in the register key:

HKEY_CURRENT_USER\Software\CVM\SMS-Monitor\SMS-Outlook

in the variable SMS SMTP Domain.

After, a window like this one appears :



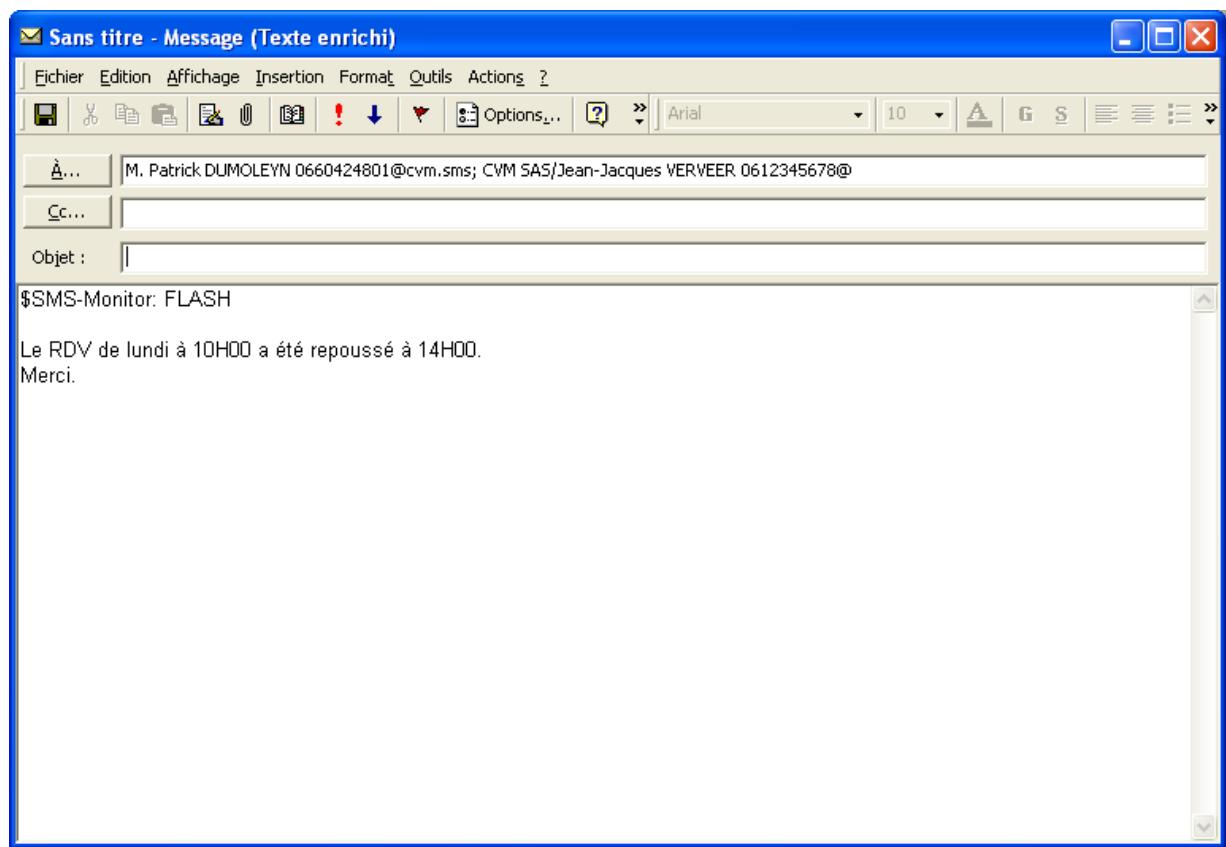
The part above on the left shows the recorded contacts in the address books by default Outlook that the GSM number has been detrained. If the user has access to other address books, they are Selectable above of the window.

Click on a contact then on the arrow towards the right to add this number of GSM to the list of the recipients. It is also possible to indicate a recipient that is not in an address books clicking on the button « Add... » :



Below on the left of the principal window, the user writes the text of the SMS that it wishes send. The meter s indicates the number of characters writes that It avoids to generate some messages requiring more of a SMS.

The button «OK» allows creating the Outlook message:



If it desires it, the user can then add some e-mail recipients in copy, modify the text, etc. The button «Send» allows transmitting the request of sending of the SMS to the SMS -Monitor server. When the SMS aura beened transmitted, the user will receive in his mail the yield of treatment.

10. SUBMISSION OF THE REQUESTES

10.1. Submission since a client of carrying trade

An of the methods the more simple so that the users can send some messages towards of the GSM is using a client of carrying trade.

It fails hold account of the mark again following:

- The object of the message is transmitted to the GSM before the text.
- The address of e-mail of the issuer is not transmitted.
- The joined pieces are not supported. All sent message with an attached document is rejected.
- The issuer of the message receives in his mail in arrival a yield of complete treatment to each recipient indicating if the message has beened transmitted on the GSM and when or explaining the cause of the check or the throwing out.

SMS-Monitor can negotiate of the messages to send to the GSM by e-mail using two methods:

1. Assigning a domain of carrying trade to the SMS -Monitor server,
2. Assigning a mail boxes on a server of carrying trade to SMS-Monitor.

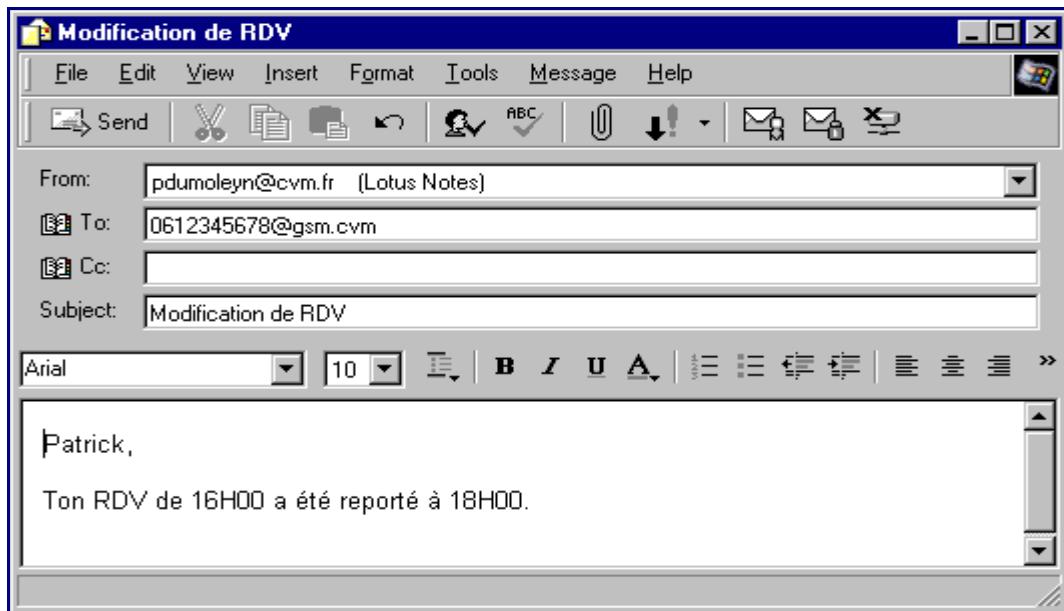
The used method influences solely on the making indicating to SMS-Monitor the GSM numbers of the recipients.

10.1.1. Towards a domain of carrying trade

If a domain of carrying trade is used, It suffices indicating the recipients under the form

Numéro GSM@domaine-SMS-Monitor

For example, if the name of the assigned domain is gsm.cvm :



10.1.2. Towards a mail boxes

On the other hand, if a mail boxes are assigned to SMS-Monitor, the messages must be addressed and must indicate you or the recipients in the text of the message.

There are three methods to indicate to SMS-Monitor the recipients of the message.

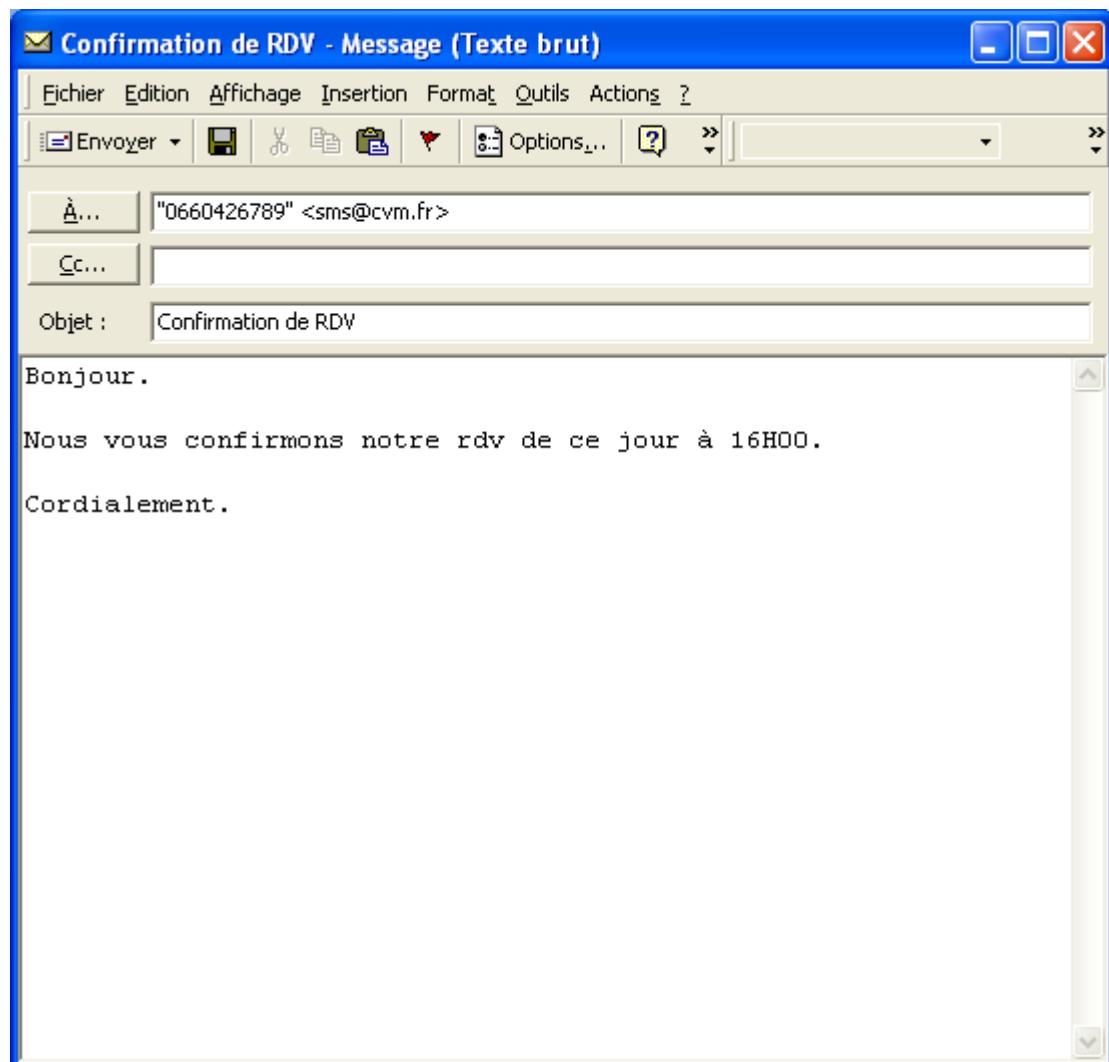
10.1.2.1.In the address of recipient

This method consists to use the part « Name of the recipient » of the carrying trade address of the recipient. The syntax of such address is the following:

"Name of the recipient" <userid@domaine.fr>

It suffices indicating the number of the GSM recipient instead of the name and indicating after between and the address of carrying trade of the created mail boxes to the sending of the SMS.

By example :



10.1.2.2.Using the GSM key-word:

The second is simple also and does not allow to indicate that the recipients of the message.

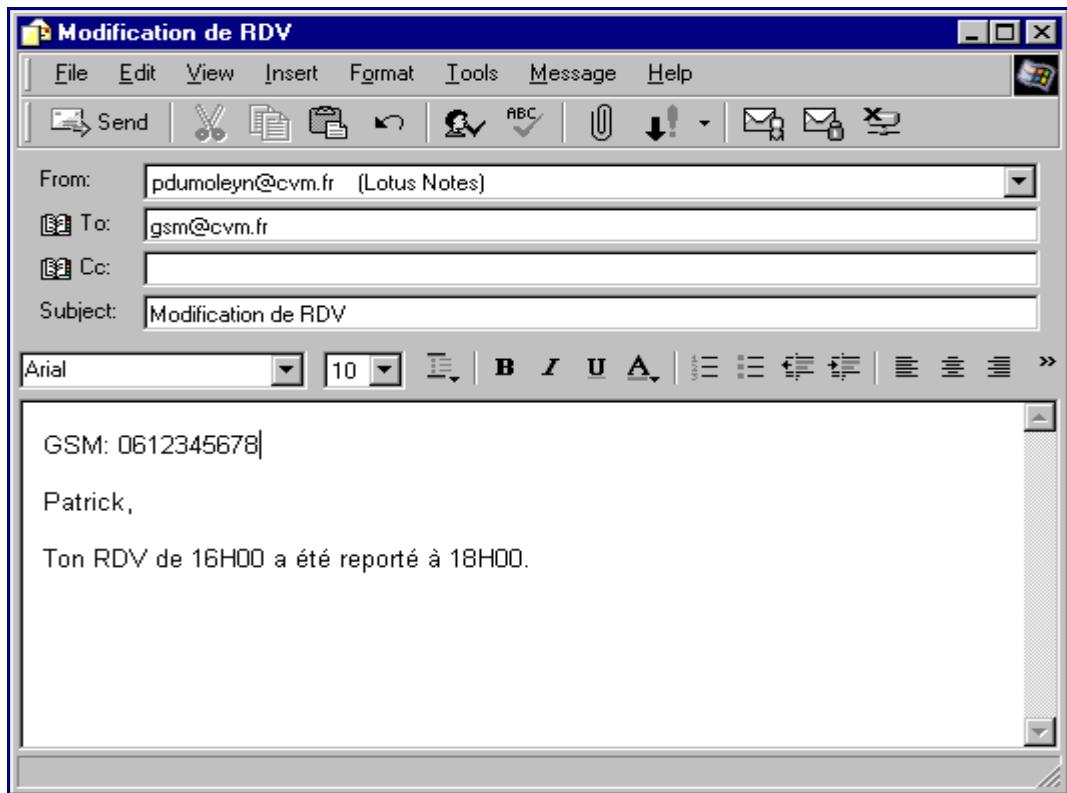
The syntax to use is :

GSM : numéro_GSM1

Or, to several recipients :

GSM : numéro_GSM_1, numéro_GSM_2,..., numéro_GSM_3

By example :



TO NOTER :

- GSM can be entered in capital or small,
- The GSM word must be connected of the sign : without space,
- there are several recipients, the numbers must be separate by of the commas,
- The making seizing the GSM number is free : It can contain some spaces, of the dawnd, etc, but of comma,
- You can write several lines of recipients.

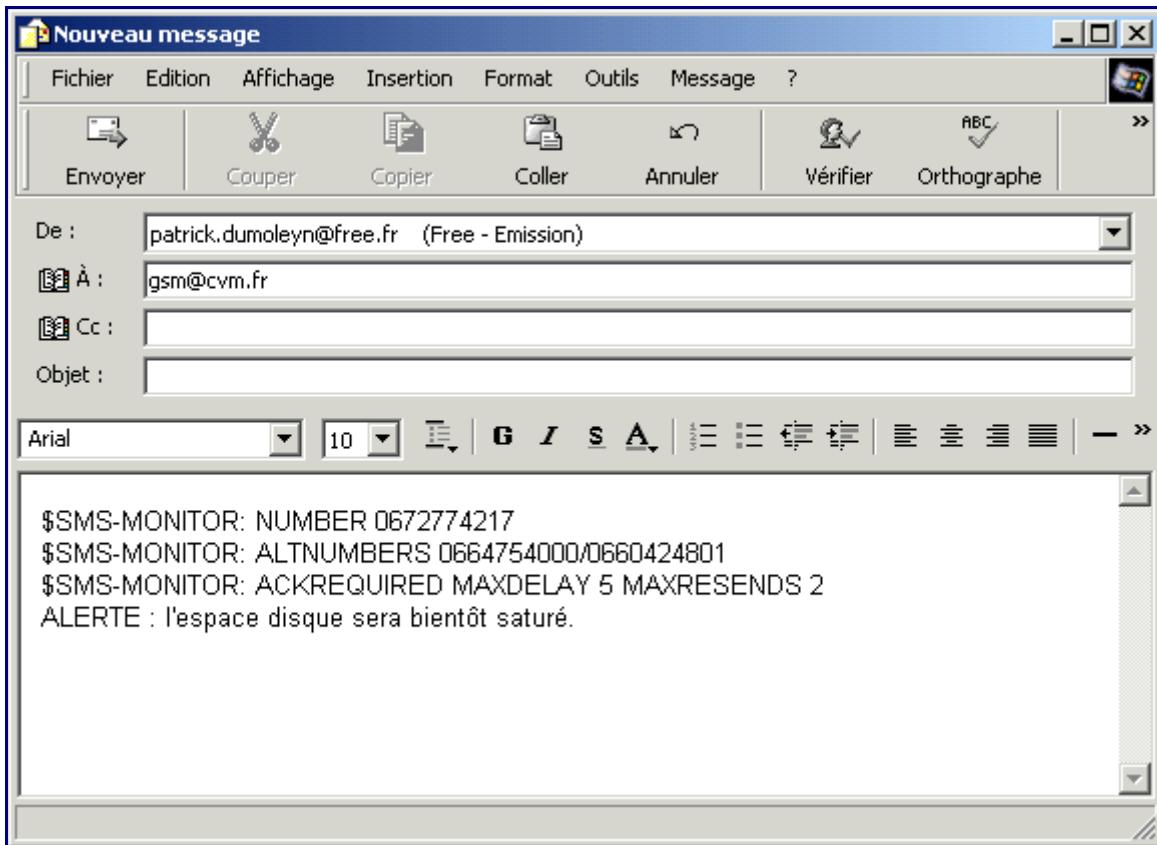
Of course, the or the lines of the recipients are not sent in the message that am broadcasted towards the or the GSM.

10.1.2.3.Using the key-words of the files API

The last method is the more complete but it allows to exactly specify the same parameters that have the file API.

To do that, it suffices placing in the body of the text several lines off begin by the \$SMS-Monitor key-word: exactly like at the time of the creation of a file of request (see the chapter « Envoi of messages » page 10).

Example of message :



10.2. Submission by Telnet

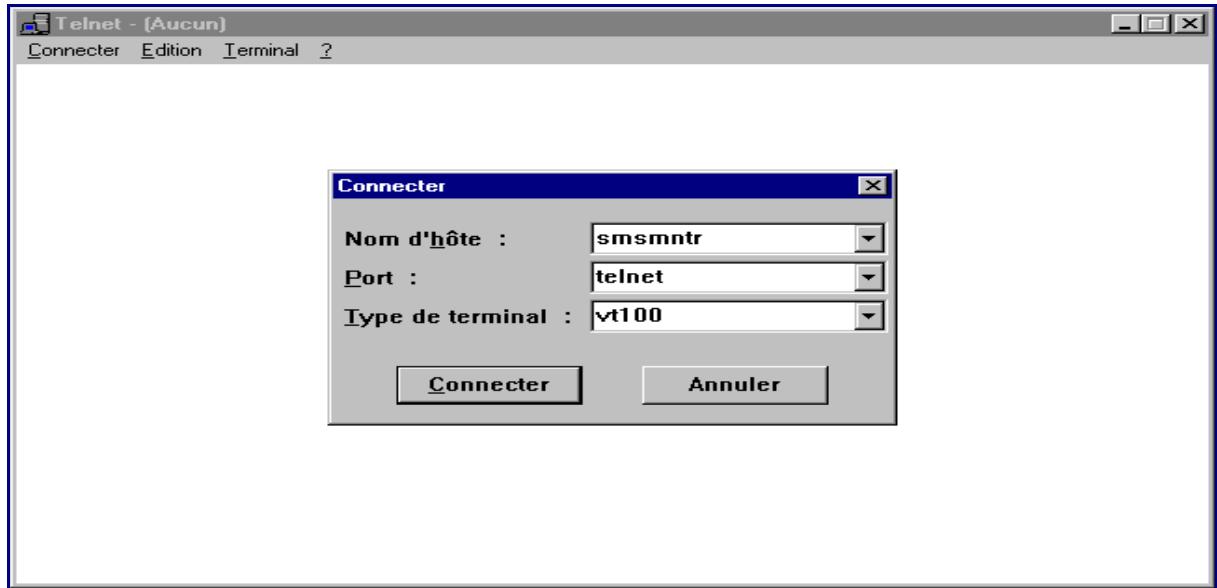
To submit a message to the Server SMS-Monitor since a Telnet client, it fails if it is authorized (see Telnet, page 61).

Rush the Telnet client indicating the name of host of the PC where functions SMS-Monitor. For example, under Windows, execute the command:

```
telnet hostname
else
telnet nnn.nnn.nnn.nnn
```

Another method consists to execute the Telnet module, then, via the menu, of ask establishing a session with a server. For example, under Windows, select

Connecting| Distant system...

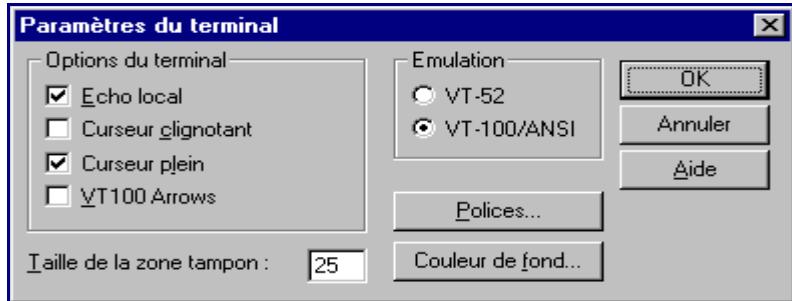


Write solely the name of host or the IP address of the SMS PC-Monitor. The port must be the one reserved to Telnet (23). Click after on "Connecter".

On the other hand, by default, the echo fashion is not activated. You do not see therefore this that you write at the time of the bus dialogue SMS-Monitor send away this that it receives. It is therefore strongly registered selecting in the menu

Terminal Preferences...

Then of check the "Echo local" hut :

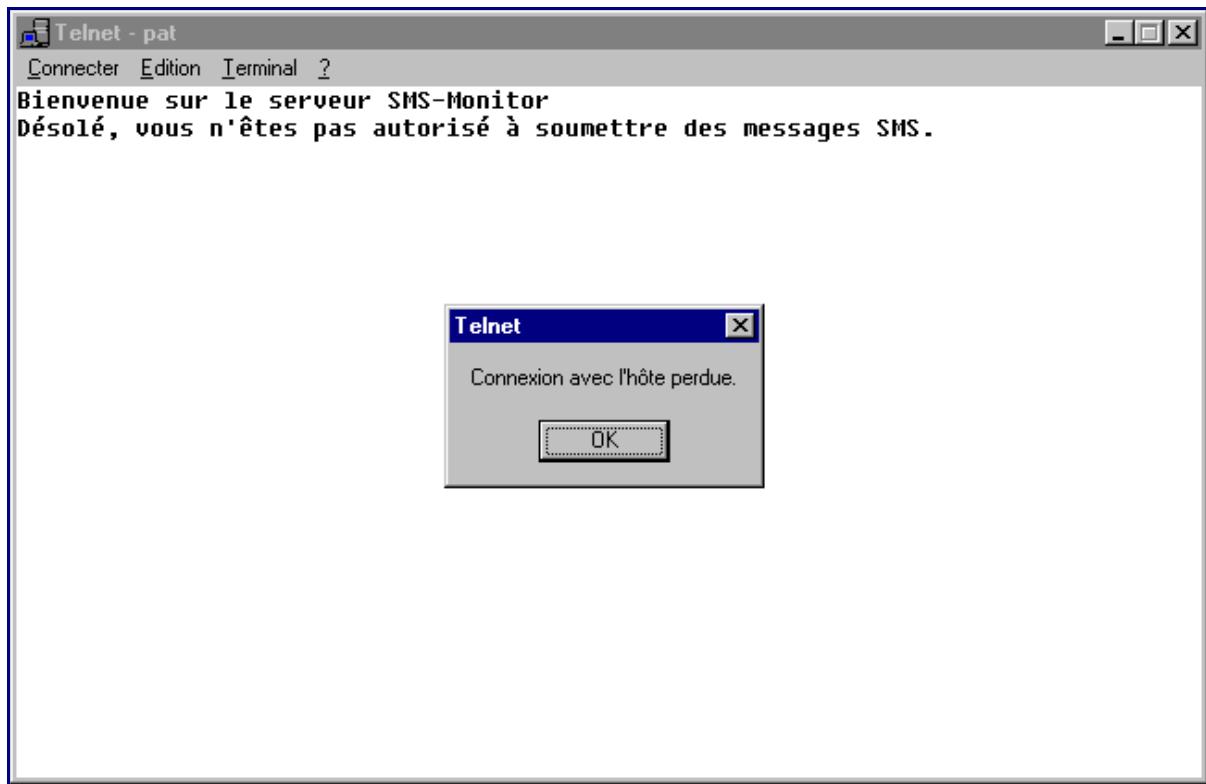


Then clicks on OK.

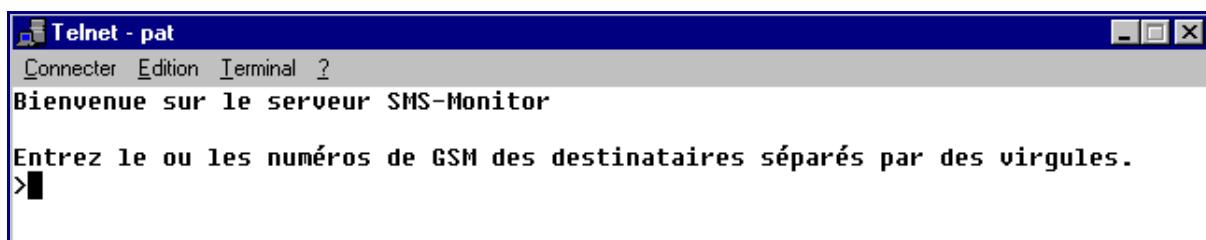
If the SMS PC-Monitor is not accessible, or if the receipt of the requests by Telnet has been activated, you will obtain a window like this one:



If the connection is established but that have been authorized you to submit some requests, you will obtain this:



If, on the contrary, your connection is accepted, you will obtain ceci :



After receipt of the “prompt”, write the or the numbers of the GSM recipients of the message. If there has several, separate them by of the commas. You can freely write the numbers, with of the space or the dawned if you desire it.

Push then on the “Entrée” key.

SMS-Monitor you ask then seizing the text of the message:



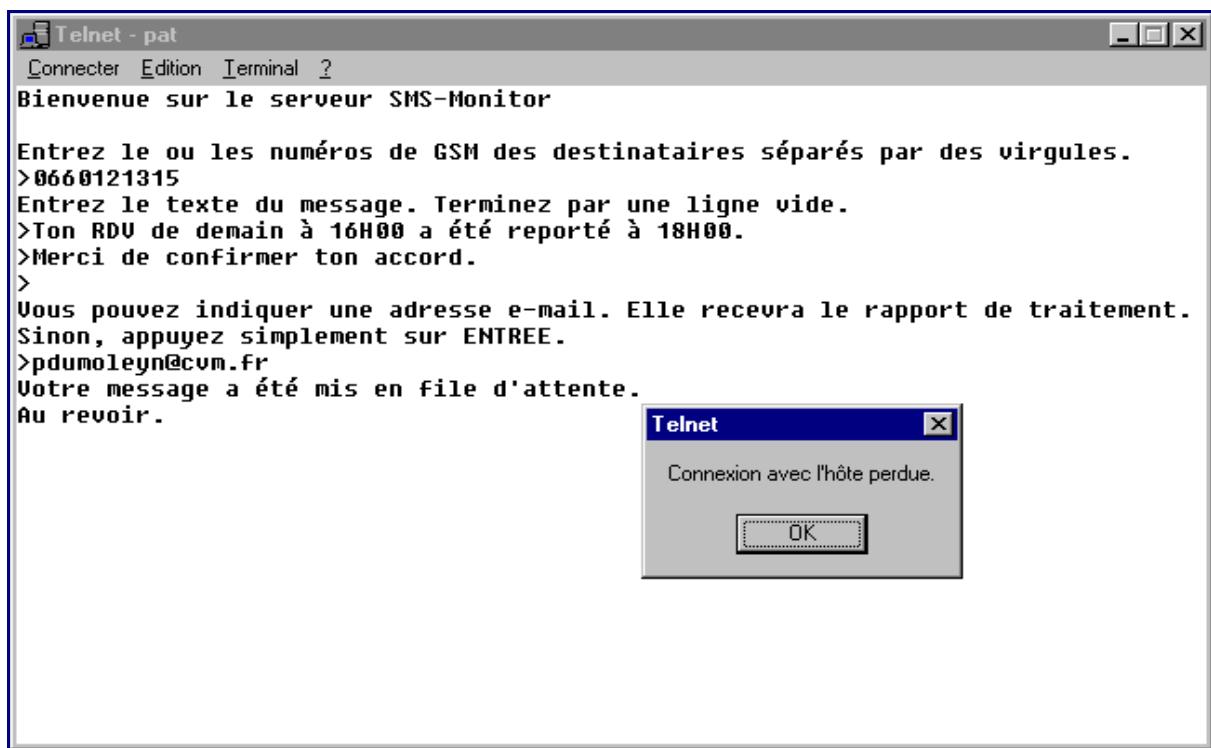
Write your message. Finish each line by a support on the "Entrée" key. When all the message has beened distractree, push again on the "Entrée" key.



You have then the possibility seizing an addresses e-mail. If a SMTP server has beened configured in SMS-Monitor (see the chapter 4.1.1.4, page 42), the yield of emission or abandonment of the message will be sent to the indicated addresses.

If that is not necessary, pushes simply on "Entrée".

You obtain then the following window:



The Telnet connection has been closed by SMS-Monitor.

10.3. Submission by FTP

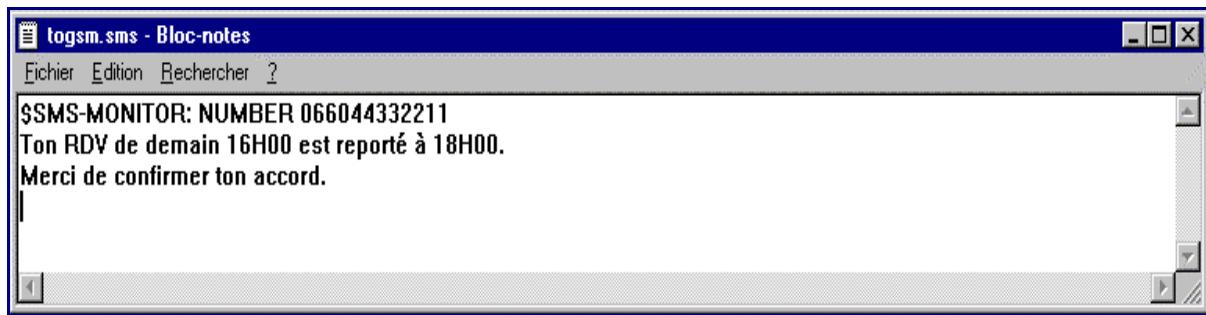
To submit a message to the Server SMS-Monitor since a FTP client that this function is beened activated and that have you a user code and a FTP password (see the FTP, page 62 chapter).

Communications et VM SAS	SMS-Monitor	Tel : +33 (0)1 43 67 09 03 www.cvm.fr Page 172 sur 189
RCS Paris B 331 758 904 SAS capital 152.449,02Euros 10 Cité Beauharnais - 75011 PARIS		

The FTP session can be executed in interactive fashion by an user or in fashion commands by a program.

In the two cases, it concerns to him sending a request of sending of message to the FTP server. The first step consists therefore to create a file of request such as describes to the chapter « Files API » page 117.

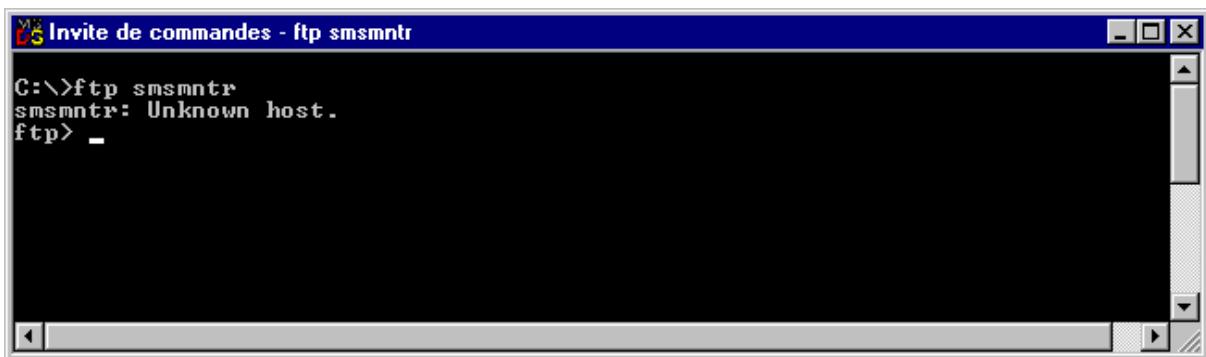
For example, the C:\SEND\TOGSM.SMS file:



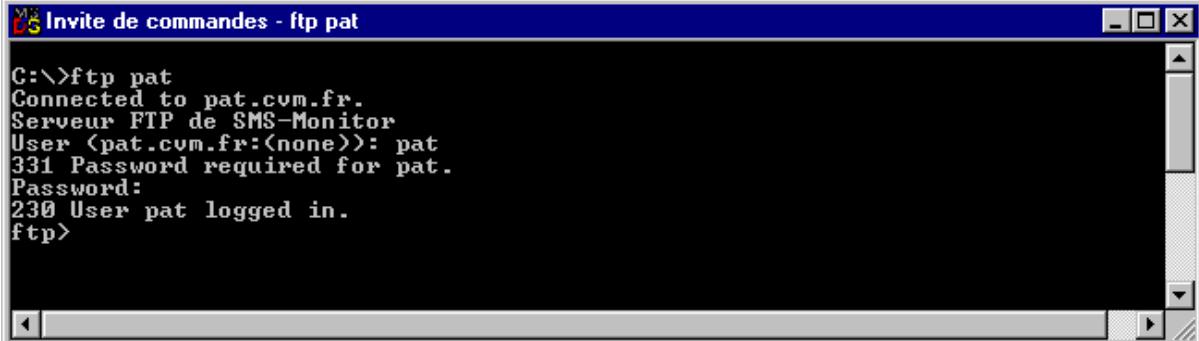
10.3.1. In interactive fashion

Rush the FTP client executing the connected FTP command of the name of host or the IP address of the PC where functions SMS-Monitor.

If the SMS PC-Monitor is not accessible or if any FTP user has not been declared, you will obtain an error like :

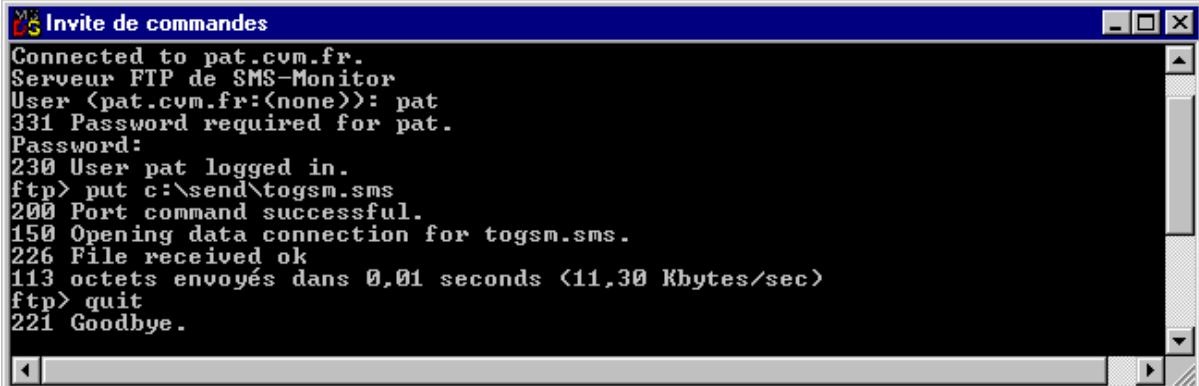


Otherwise, the FTP server you [demendra] identifying you bringing your user code and your password. Even though the user code is "anonymous", you must enter an any character strings like password; It always will be accepted.



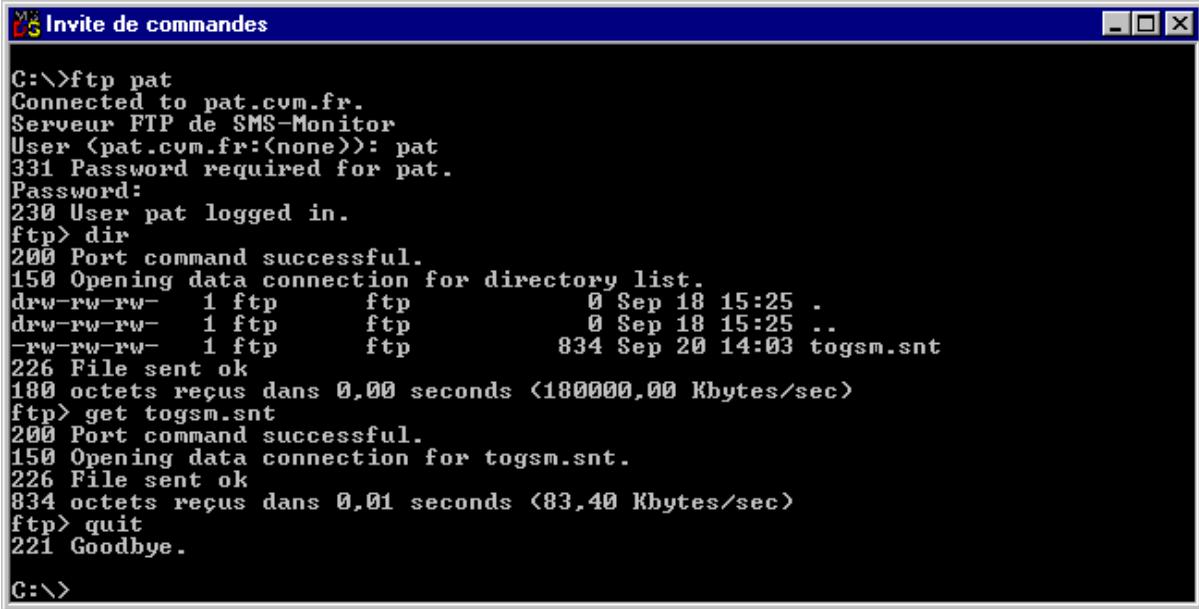
```
C:\>ftp pat
Connected to pat.cvm.fr.
Serveur FTP de SMS-Monitor
User <pat.cvm.fr:(none)>: pat
331 Password required for pat.
Password:
230 User pat logged in.
ftp>
```

It suffices then sending the file of request by means of the PUT command connected of the name of the file containing the request, then finishing the session:



```
Connected to pat.cvm.fr.
Serveur FTP de SMS-Monitor
User <pat.cvm.fr:(none)>: pat
331 Password required for pat.
Password:
230 User pat logged in.
ftp> put c:\send\togsm.sms
200 Port command successful.
150 Opening data connection for togsm.sms.
226 File received ok
113 octets envoyés dans 0,01 seconds (11,30 Kbytes/sec)
ftp> quit
221 Goodbye.
```

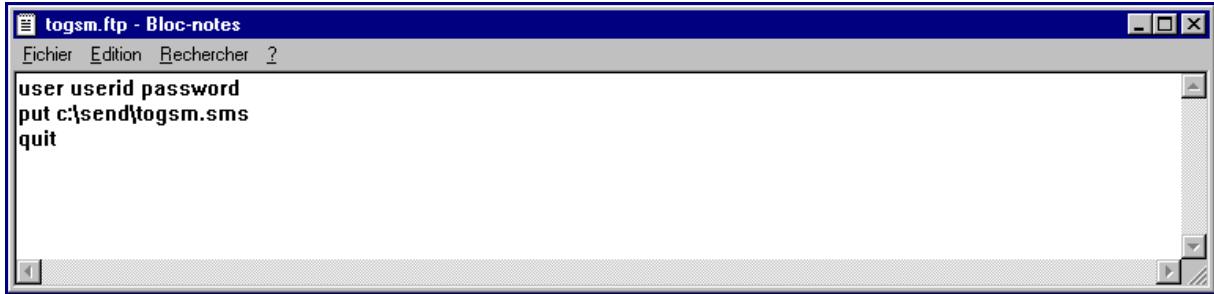
Later on, can reconnecter you to the server to knowledge if the message has beened messenger (commands DIR) and recover the yield of treatment (commands GET):



```
C:\>ftp pat
Connected to pat.cvm.fr.
Serveur FTP de SMS-Monitor
User <pat.cvm.fr:(none)>: pat
331 Password required for pat.
Password:
230 User pat logged in.
ftp> dir
200 Port command successful.
150 Opening data connection for directory list.
drw-rw-rw- 1 ftp      ftp          0 Sep 18 15:25 .
drw-rw-rw- 1 ftp      ftp          0 Sep 18 15:25 ..
-rw-rw-rw- 1 ftp      ftp        834 Sep 20 14:03 togsm.snt
226 File sent ok
180 octets reçus dans 0,00 seconds (180000,00 Kbytes/sec)
ftp> get togsm.snt
200 Port command successful.
150 Opening data connection for togsm.snt.
226 File sent ok
834 octets reçus dans 0,01 seconds (83,40 Kbytes/sec)
ftp> quit
221 Goodbye.
```

10.3.2. In fashion commands

It fails first of all prepare a FTP command files. For example, the C: file \SEND\TOGSM.FTP :



```
user userid password
put c:\send\togsm.sms
quit
```

After, It suffices executing the FTP command happen the name of the command file:

```
-n -s:c: |ftp| \send\togsm.ftp server
```

On the other hand, It is much more difficult detecting the presence of a file of yield and recovers it but It fails analyse the answers of the FTP server.

It is preferable asking to SMS-Monitor sending these yields to a FTP server. It suffices then detecting the presence of files *.SNT or *.ERR in the index of backwardation of the FTP server targets.

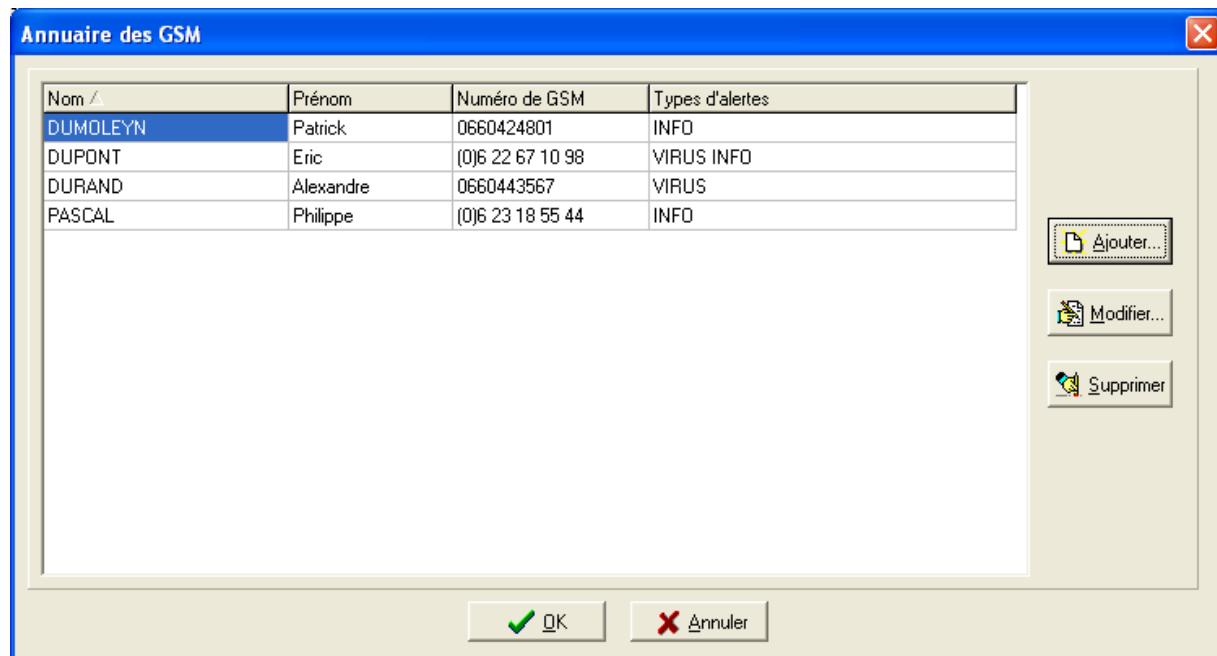
The making configuring this option is interface to the "Envoi chapter of the rapports" page 63.

11. APPENDICES

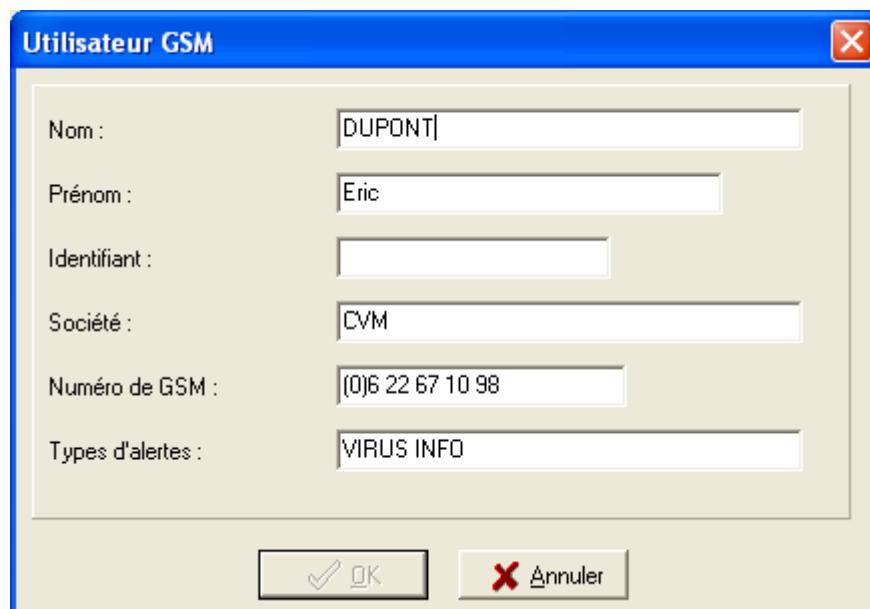
11.1. Sending of alarms towards the personnel of obligation

SMS-Monitor proposes a particular operation to this type of messages. It is accessible solely by submission of the alarms in SMTP.

The first step consists to declare the susceptible people treating this genus of alarm. To that, it suffices declaring them in the SMS-Monitor annual:



To each intervene, it fails indicate to the minimum his name and his number of GSM:



Besides, in the zone « Types of alerts », It fails indicate the types of alarms that must be transmitted. It concerns to him of symbolic names that will be indicated to SMS-Monitor in the alarm messages (see below).

When an alarm of a given type is transmitted to SMS-Monitor, It is transmitted automatically to all the concerned people.

To submit an alarm of a given type, It suffices after sending an e-mail to SMS-Monitor indicating like address of recipients:

alert_type@domaine.sms

Where alert_type is the symbolic name of the alarm concerned and domaine.sms the name of the SMTP domain associated to SMS-Monitor.

In the text, of the message, It fails insert the follow en line column 1:

\$SMS-MONITOR : ALERTTYPE xxxxxx

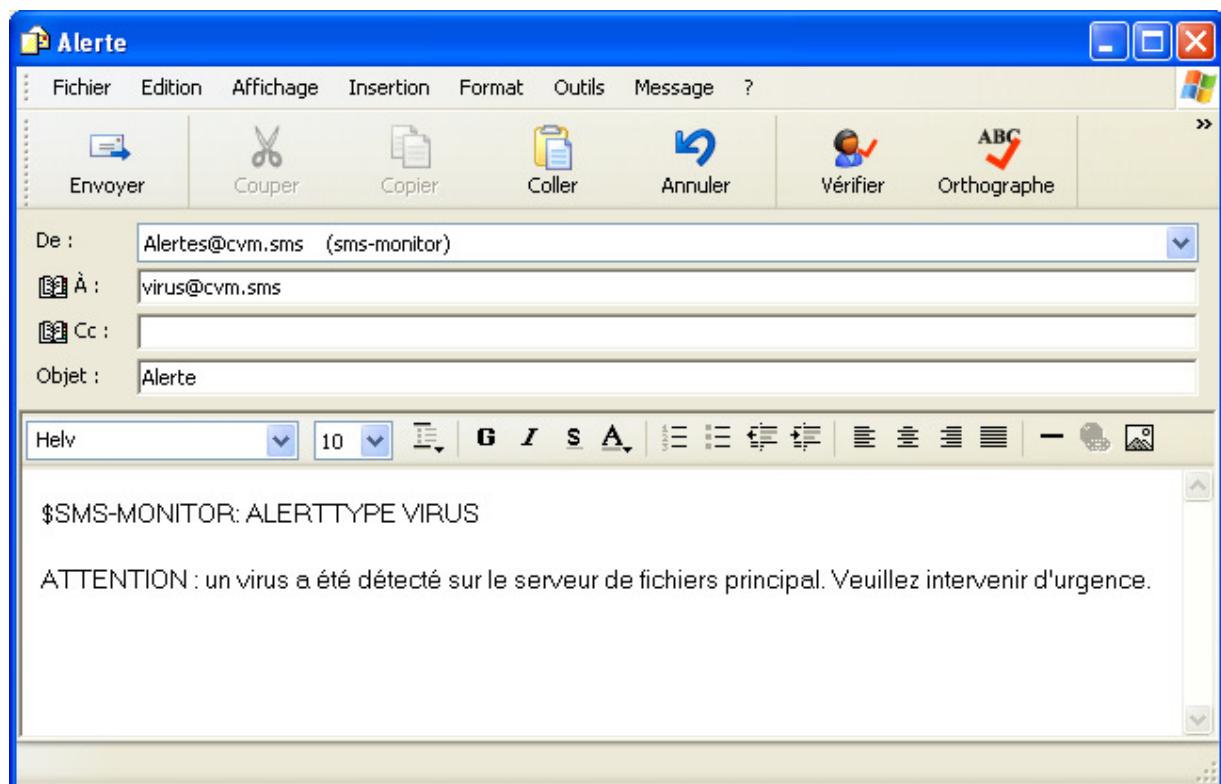
Where xxxxxx is the symbolic name by defining the type of the alarm.

By default, SMS-Monitor assigns to each new alarm a sole number in command to identify it. You can however submit your property identifying inserting the following line in the text of the message :

\$SMS-MONITOR : ALERTID |nn|

Where |nn| is any character strings.

Example of e-mail of alert :



The text of the SMS that are sent to the concerned people is prefixed by SMS-Monitor with this text :

Alert nn : text of the message

When a person takes in charge the alerts, It must answer to the SMS that It has received, indicating in the message solely the identifying of the alerts, this that permits to SMS-Monitor can correctly manage several simultaneous alarms.

Upon receipt of this opinion of hold in account, SMS-Monitor sends immediately to all the other people having been alerted in SMS contain the follow text:

The alarm has been occupied in account by name number

11.2. Particular configurations

11.2.1. Sending some SMS by e-mail without SMTP domain specific

Like It is indicated in this documentation, SMS-Monitor integrate a SMTP server. Like this, doing tally a name of SMTP domain specific, all the e-mails sent to this domain arrives in SMS-Monitor that the stretch and sends the texts by SMS.

How do when the SMTP server used by the enterprise is lodged and, therefore, that It is not possible creating a SMTP domain?

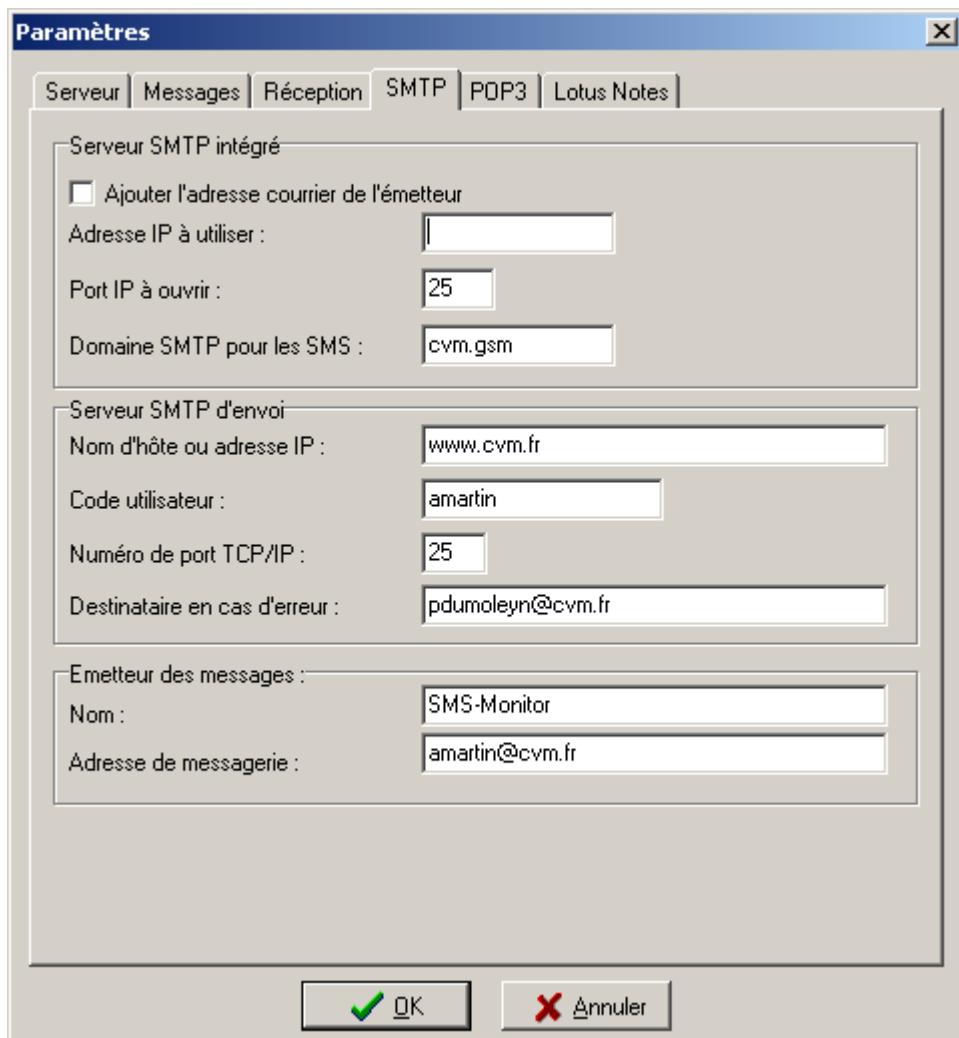
It suffices then using SMS-Monitor as SMTP server relay. All the e-mails are sent. Those that are intended to the GSM are treated by SMS-Monitor and all the other are relieved towards the usual carrying trade server.

Implement this technology; it suffices following the procedure interface below.

First of all, in the clients of carrying trade generating the e-mails, it fails replace the IP address or the name of host of the SMTP server by the address or the name of the SMS -Monitor server. From that time onwards, all the dispatched e-mails will be sent.

After, it fails settings SMS-Monitor in consequence. To that, select in the menu of the configuration application Parameters.

The window of configuration appears, click on the SMTP tab:



The IP address to use has not, in general, need being informed. It is not useful that when SMS-Monitor must cohabit on the same machine with other SMTP servers. In this case, It is necessary defining an IP address to each.

It is on the other hand essential to inform the name of SMTP domain to the SMS. Indeed, that is testing the gone domain (on the right of the sign @) of the addresses of the recipients, that SMS-Monitor can be determined It concerns to him of a GSM recipient or e-mail.

If, for example, you indicate here cvm.gsm, all the intended one-address e-mails of type xxxxxxxxx@cvm.gsm will be treated by SMS-Monitor and sent by SMS. The left part of the address (before the sign @) must therefore contain the GSM number of the recipient.

All the intended e-mails to a different domain will be relieved.

It suffices after, in the rectangle «sending SMTP server «declaring your SMTP server usual. All the e-mails are not destined to the GSM will be simply sent like before.

11.2.2. Operation with two servers note in |cluster|

This paragraph not concerns that the facilities where SMS-Monitor uses a client Lotus Notes to receive some requests of sending of SMS and/or to send to the users note the SMS received.

SMS-Monitor can function frontal of two servers note in cluster, of is operational them. When it stops to him, the second takes the relief.

To configure this particular environment, repair by invisible mending the SMS session-Monitor, then edit with NOTEPAD the SMS file-Monitor\Date\SMS-Monitog.cfg.

After the Parameters section adds the two following registrations:

Note Server 1=NOTES1
Note Server 2=NOTES2

Where NOTES1 and NOTES2 are the names of your servers.

If you have configured your servers so that they use more of a bases |mailbox|, must also add you the following registration:

Note Mailbox=MAILn.BOXCALF

Where MAILn.BOX is the name of |mailbox| that will use SMS-Monitor to send the messages. Of course, this lower part must exist on the two servers. The client note installed on the Server SMS-Monitor must have the straight depositor on these (default) lower part.

Example to file beginning SMS-Monitor.cfg:

Parameters
Note Server 1=NOTES1
Note Server 2=NOTES2
◆ Note Mailbox=MAIL1.BOXCALF

A new message indicates now in what is the name of the server note used by the SMS session-Monitor.

11.3. Contents of the journals

The first registration of the journals files contains the title of the column.

11.3.1. Journals of the issued and messages abandoned

Title of the column	Meaning
Submission date	Date whom the request has been put in waiting line.
Submission hour	Hour whom the request has been put in waiting line.
Request	Sole number assigned to the request at the time of his placing in waiting line. It allows to follow the treatment of this one in the logs .
GSM number	Number of GSM of the recipient of the message.
Submission	Indicates how the request has been submissive. This column can contain : « Scrutation répertoire »: file of request detected in a scrutinized index by SMS-Monitor. « SMTP server » : message sent by e-mail checked and sign for by the SMTP server integrated in SMS-Monitor. « POP3 account » : extracted message by SMS-Monitor of a POP3 mail boxes. « FTP server » : received request by the FTP server integrated in SMS-Monitor. « FTP client » : request extracted of a FTP server by the FTP client integrated in SMS-Monitor. « Telnet » : received request by the Telnet server integrated in SMS-Monitor. « Editeur Intégré » : entered message in the enclosed editor in SMS-Monitor. « Alert » : request of alarm generated by SMS-Monitor after detection of an anomaly. « Client module » : submitted request by means of the COM object.

	« Notes lotus » : sent message via a lotus client note. « Database » : generated request from a registration of a table of a database.
Origin	Describes the origin of the request. By method of submission, this can be an index, an address of carrying trade, or the name of a table.
Reference	If the request contained the REF key-word, indicates the value of the reference that followed.
Attn	If the request contained the ATTN key-word, indicates the name of the recipient that followed.
Society	If the request contained the COMPANY key-word, indicates the name of the society of the recipient that followed
Object	If the request contained the SUBJECT key-word, indicates the object of the message that followed
Characters	Indicates the total number of characters by composing the message.
SMS solicited	Indicates the SMS number that It has must send to dispatch the totality of the message. In case n of yield of check, indicates how many SMS could be transmitted to the operator. This value can be used to calculate the cost of the message.
Transmission date	Indicates the date that SMS-Monitor has beened result of inquiry that all the SMS composing the message has beened transmitted or dates that the sending has been abandoned.
Transmission hour.	Indicates the hour that SMS-Monitor has beened result of inquiry that all the SMS composing the message has beened transmitted or dates that the sending has been abandoned.
Error	In case of yield of check, describes the met error.

11.3.2. Journals of the SMS received

Title of the column	Meaning
Date	Date that the SMS has been received.
Hour	Hour whom the SMS has been received.
GSM number	Number of GSM of the issuer of the SMS. This number is well stocked by the operator.
Characters	Number of characters by composing the SMS.
Modem	Symbolic name of the modem having received the SMS permitting therefore deducing the GSM number composed by the issuer.
Identifying	When the GSM number of the issuer is found in the internal annual (see chapter the chapter « Annuaire » page 71) of SMS-Monitor, contains the identifying tally.
Name	When the GSM number of the issuer is found in the internal annual (see chapter the chapter « Annuaire » page 71) of SMS-Monitor, contains the corresponding name
Message	Contains the text of the SMS.

12. MAINTAINING OF THE SOFTWARES CVM

12.1. Definition of the SMS application-Monitor

SMS-Monitor is a modular solution (material and software's) server of SMS messages multi-enterprise operators, integrated to the local area networks and used in frontal of the central systems (Mainframe and mini) to treat the needs of the applications| operation on these environments.

When CVM provides the application SMS-Monitor following a command, CVM has an obligation of result in relation to the needs of the client, like all suppliers in France.

12.2. Definition

During the first year of exploitation the software support service is enclosed in the upright of the licence of the spread out software by CVM.

During a period of 1 year, from the date of receipt, CVM settle oneself firmly without supplementary invoicing a service of software's that includes:

- the adaptation of SMS-Monitor to a change of version of the Windows NT operating system, 2000, or XP, of Lotus Notes, of MS-Exchange defined in the solution,
- the modifications relative to all perfecting that it brings to SMS-Monitor and that improves the operation and the performances,
- the modifications relative to the introduction or the revision of new official norms.

Beyond this period of 1 year, CVM enlists to provide to the client, to the request of this last, a contract of service of software's understanding the same services that those defined above to the 15 % financial conditions of the upright of the licences, the year, index-linked on the variations of the SYNTEC indication.

12.3. Technical presence-Hot CVM [line] and presence

You have a telephonic hotline to Paris :

A Monday to the Thursday of 9 H 00 to 12 H 30 and 13 H 30 to 17 H 30

and

the Friday of 9 H 00 to 12 H 30 and 13 H 30 to 17 H 00.

The maintenance agreement understands the telephonic presence if the default finds his spring in the CVM software.

Telephonic presence-had consideration on the news provided by the CVM client will endeavour to him by telephone solving the difficulties providing to the client the useful information and the procedures to follow.

Diagnosis-had consideration on the news provided by the client, CVM will proceed to a diagnosis of the established difficulty.

When a satisfactory solution to a problem cannot be obtained by the personnel of support of CVM from his desks, an engineer is loose to the title of the maintaining at the client to execute the analysis of the situation.

In the frame of the maintenance agreement, CVM cannot intervene that if the default finds his spring in the CVM software.

Beforehand the client will provide the list of the operative object-level programs, reference manuals and fashion, the complete description of the incident and the exact description of the context.

12.4. Obligations of the client

In the frame of these intervening the client enlists to him to provide to CVM:

- a correct premises,
- the initial documentation and the well stocked updates by CVM,
- the proper documentations to the configuration,
- the free access to the data processing configuration in which is integrated SMS-Monitor, the availability of the SIM maps, the access to the operators, etc...,
- the availability of the saves of the settings files of the SMS application-used and proper Monitor to the client if that were necessary, as well as the files concerning the waiting line of the treatise fax when necessary,
- as well as the free disposition of the machine time and the space schemes necessities to the study of the incident.

The client must be settled oneself firmly that the computer on which the software is installed and that all the products or program data processing that It is bound or that It is interdependent, this that encloses his operating system are compatible with the software and his overturn posterior and not do the object of a bad susceptible operation affecting or damaging the software or affecting his exploitation.

The aura client the responsibility keeping some copies of security and the saves of the software and other data processing data according to the uses in data processing matter.

12.5. Boundaries of the maintaining

The maintaining not covers:

- the displacement of the system.
- The dragged works by the modification of the run electric or by a moving of SMS-Monitor requiring a new installation, the placing in implementation of cases of backwardation if that is necessary, the realization or the taking up of possible supplementary devices.
- the CVM intervening required par :
 - an abnormal use and no in conformity with the prescriptions of the use of SMS-Monitor, of the GSM modems and the hertzian aerials, of the maps multi RS232 if that is necessary, of the cases of carrying forward if that is necessary walker-on in the offer of CVM,
 - some deteriorations must to the cause exterior to the system (electric defective thunderbolt, alimentation, default of line of the operator, failure to respect of the norms of facilities.....)
 - an use of supplying no confirmed by CVM or defective, some dysfunctions or the modifications of all the products other that Lotus Notes or program data processing that It is bound or that It is interdependent, this that encloses the operating systems and business - oriented of the data networking's, the facilities and the data processing treatments that It is interdependent.
 - some executed repairs, adding's or modifications by of the personal foreign to CVM or no elected by .

12.6. Treatment of the anomalies – level of gravity

First level of gravity: It indicates that the use of the software is affected in such a way that It results a critical impact on the operations.

Examples:

- excessively abnormal finesses
- shortcomings of the integrity of the datas,
- major inoperative applications,
- inoperative key functions.

Circonvention/fix: as soon as possible to do not two (2) worked days.

Second level of gravity: It indicates that the software is usable, but has some shortcomings that have an impact on the operations of the permit holder and permit holder potentials or that the restrict.

Examples:

- running function does not function,
- under-commands frequently used deal of the incorrect answers.

Circonvention/fix: Five (5) worked days.

Third level of gravity: It indicates that the software is usable, but that It has a default that limits the operations no critiques of the permit holder or permit holder potentials.

Examples:

- few function used does not function by,
- the bypass/workaround procedural is available but the permit holder or permit holder potential asks a |fix|
- under-rarely commands used deal of the incorrect answers.

Circonvention/fix: Thirty (30) worked days

Fourth level of gravity: It indicates that the software is usable, but includes a default that has a minimal impact on the operations of the permit holder or permit holder potential.

Examples:

- specific element lack or irritates,
- message of a test describes poorly or erroneous making,
- utilitarian functions rarely used, sometimes give of the erroneous results,
- Available |workaround| and the client expect the following |release|.

Circonvention/fix: If CVM finds the time, but exacts a solution in the nearest |release| of maintaining or in the in progress |release| in spreading out.

Fifth level of gravity: It indicates a problem can be treated in a future |release|.

Examples:

- a screen functions correctly but the word is badly placed,
- a spelling error is found in the body of the text.

Circonvention/fix: exacts a solution in a future |release|.

13. GUARANTEES

13.1. Guarantee of the CVM software's

The SMS software-Monitor like all the CVM software's, is guaranteed against all vices, that the concealed defects by following French.

13.2. Guarantee of the well stocked facilities by CVM

These facilities are guaranteed by the constructors from their installation date. The period of guarantee is solely defined by each of the constructors.

14. OTHERS APPLICATIONS CVM

CVM-Connect	<p>Server of fax and telex to environment of carrying trade(Lotus Notes, Outlook/MS-Exchange, SMTP...), and to treat the automatic sending by and/or fax telex (or e-mail) from files produced by the data processing applications of the enterprise</p> <p>The fax application manages some analogical access RTC and Numéris (RNIS/ISDN) of access type of S0/T0 lower part and primary S2/T2.</p> <p>This application answers to very numerous needs and benefits of thirteen years of existence.</p>
SMS-Monitor	<p>Application allowing sending and receiving some SMS text messages multi-operators between the data processing of your enterprise and the cell phones (GSM) of interlocutors or collaborators.</p> <p>Several types of facilities are achieved (sending of datas produced by the business - oriented applications, unified carrying trade and systems of alarms).</p> <p>SMS-MailAlert to Lotus Notes, that permits the automatic carrying forward of arrival datas in the arrival mail function of Lotus Notes on the GSM telephone of the proprietor of the box (of the filters are used).</p> <p>A mono version-stations, mono-see, that includes some more restricted functions is available. It allows doing some data originations of text type under the form of an or several SMS chained, by see hertzian between this module and the SMS server application-Monitor.</p> <p>It offers also the emission/reception of SMS multi-deposited operators in an index of the microcomputer or from Outlook express.</p> <p>SMS-Mailer, modulates complementary to the sendings in mass of SMS (mailing) via SMS-Monitor</p>
CVM-Alert	<p>Tool application of supervision concerning all the strategic elements of your data processing (materials/software) to prevent the inalienability. Detect the abnormal situations in the exploitation of a computing system, triggers some alarms and the transmits as soon as possible to the able to people treat the problem and of it remedy as soon as possible.</p>
CVM-PhoneAssist	<p>Solution of carrying trade unified integrated to Lotus Notes and to the SMTP carrying trade allowing to treat the vocal messages by enclosing a vocal interactive server (SVI).</p> <p>This application integrate to the architectures of the Alcatel 4200 PABXs and 4400 , to the Matra 6500 , Siemens, Nortel, etc.</p> <p>That is a convergent transactional system that uses the Telephony/Informatique coupling.</p> <p>That is also a solution of automatic standard.</p>
CVM-PhoneAssist	<p>Server solution CTI, integrated to your data processing applications, that those under Lotus Notes, and to your telephonic system.</p> <p>On incoming call, the collaborator knows how that telephone and have the back in progress on his screen. The interlocutor is recognized.</p> <p>This solution understands the functions following : the sorting and routing of the appeal according to of the meadow criterions-define, the search of availabilities, the synchronization of the transfer of the appeal with rise of pegs or backs served a writ on a mainframe , a mini or in a local area network, an automaton of usable call request from any application.....</p> <p>This application integrate to the architectures of the Alcatel 4200 PABXs and 4400 , to the Matra 6500 , Siemens, Nortel, etc.</p>
CVM-Unicomm	<p>Automaton of diffusion of alarm messages via SMS messages, vocal, fax and e-mails. Phad be used in autonomous or integrated to a computing system and a telephonic architecture.</p>
CVM-contact to Lotus Notes	<p>Application of GRC-electronic universal annual, management of an address books, as well as complementary information, totally integrated to the communication media that the word processors, the carrying trade, the fax or server applications of SMS messages, as well as to the agenda and</p>

	administrator functions of the tasks.
Assist-Monitor to Lotus Notes:	Application of GRC-administrator of backs of requests, shared between different types of intervening understand a mover of Workflow, a knowledge bases and solutions. Totally open solution enclosing a management in real time of the priorities, integrated to the agenda and administrator function of the tasks.
CVM-JobRequestor to Lotus Notes	Business-oriented application of the expressed requests by the person responsible of the 'exploitation informatique' service by the users. Solution that understands a mover of WorkFlow.
Management of the subscriptions to Lotus Notes	Application to manage the bequest of readings of the periodicals, reviewed technical,... and the new or in progress subscriptions. Solution that understands a mover of Workflow and that provides directly the annual financial scheme and to the temporise proportional share.
CVM-Invest to Lotus Notes	Administrator of the requests of besieging, understand a solution of electronic approval and a mover of Workflow.
Management of the besiegings to Lotus Notes	Application of follow-up of the budgets, requests of authorization of purchases, of the commands, of the receipt of the goods and services and the roll and the seizure of the invoices.
Management of the notes of expenses to Lotus Notes	Application of creation and management of the notes of expenses with electronic approval and a mover of Workflow.
CVM-MailMan	Automaton of and/or sending receipt in number of e-mails with or no pieces joined to Internet for example.
CVM-HostPilot,	Software package allowing to entirely automate the data collections in of the interactive accessible applications in the course of 3270, 5250 and replace if necessary the manual seizure. For example, It allows to automatically transferring of the files to the CSV format stocked on a spaces disk in an application 5250 or 3270 without the use of an operator or an operator. This automation is achieved through scripts simulating entirely a human operator. CVM-HostPilot is an automaton that can function permanently on a server or to be executed to the request.
CVM-TTYRECV,	Automaton of data collections in real time via of the RS232 ports of a microcomputer with storage and application of search multi-criterions under Windows.
FTP-Monitor	Application of automatic transfers, secured, of files (datas) via FTP in a TCP/IP architecture enclosing of the heterogeneous computing systems or no. Lare transfers can be done in local or from afar (via the RAS function of Windows for example). <i>A FTP server of FTP-Monitor to Windows (XP, 2000 or 2003) enclosing the functions of retaking to heat, compression of datas and encrypt can be used in complement of FTP-Monitor in command to increase the efficacy of this application.</i> A SFTP module is available.

CVM, that is also a train of barges of developers to Lotus Notes, certified, that achieves of the specific applications to the request, enclosing or no the cooperative treatment with other applications on a mainframe, a mini or in a local area network, of the systems of Workflow entirely programmed...

This train of barges put in implement of the solutions and applications in changing domains, that those of the GRC, the pertaining to banking, financial sector, a student at this college-nutritious, aerial, of the medias, the industry, of the assurances, of the OPAC and HLM, of the telephony, etc...



TERMS OF USE SOFTWARE CVM

The CVM software's are covered by a right of ownership that the foreseen royalties by the law of the Mars, 11 1957 and by the law of on July, 3 1985 and the law of May 1994 n° 94-361.

It is not there aura reached to the rights of Communications and VM, provided that the user in period of test or permit holder respects the following conditions to each of the concerned software's:

- ✚ The CVM software cannot be used that on an only machine at a time during the period of test, or on the identified machines doing the object of differentiated user's licenses.
- ✚ The CVM software cannot be modified, nor adapted to his use.
- ✚ The CVM software cannot be integrated in other products in view of the resale without previous written authorization of communications and VM.
- ✚ The CVM software cannot be amalgamated with another software that to his use on the machine identified, object of the differentiated user's license.
- ✚ The CVM software must not be reproduced that to the finesses of conserving of emergency copy, in the frame of his use on an only machine.
- ✚ The mentions of "copyright" must be reproduced and enclosed in all copies in accordance with the lie appear on the supports of communications and VM.

All other action implying the reproduction of the CVM software, his use or his exploitation, is expressly prohibited.

❖❖❖❖

This manual is protected by the law of the 11 Mars 1957 on the literary and artistic property, completed by the law of on 3 July 1985 and by the law May 94-361 1994.

In application of these laws and conventions, any total or partial reproduction of the manual is not authorized, except written consent communication prerequisites and VM.

Your rights concerning the software are submissive to the terms of the license contract of use of **Communications and VM**.

The CVM logo is a registered trademark of **Communications and VM**.

The CVM software, the API softwares of CVM-Forms, FTP-Monitor, CVM-EasyCall, CVM-Connect, CVM-Xfer, CVM-MailXfer, CVM-PhoneAssist, CVM-Unicomm, CVM-MailMan, FTP-Monitor, SMS-Monitor, SMS-Mailer, SMS-MailAlert, CVM-contact to Lotus Notes, CVM-TTYrecv, the management of the subscriptions to the press to Lotus Notes, Assist-Monitor to Lotus Notes, CVM-Alert and CDSSERV are of the products of **Communications and VM**.

Version of the documentation: November 08

Communiquer avec le Monde

*Communications & VM are a registered trademark.
CVM-Connect is a mark of Communications & VM*

*Communications & VM reserves the right, without previous opinion, bringing
all modifications in the specifications of the product.*

Communications et VM SAS

RCS Paris B 331 758 904
SAS capital 152.449,02Euros
10 Cité Beauharnais - 75011 PARIS

SMS-Monitor

Tel : +33 (0)1 43 67 09 03

www.cvm.fr

Page 189 sur 189