



SMS Modem Installation Manual



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¹ While Cathexis has made every effort to ensure the accuracy of this document, there is no guarantee of accuracy, neither explicit, nor implied. Specifications are subject to change without notice.



1 Introduction

This document will detail the SMS Modem Installation including how to send text messages when alarms are received, which platforms are supported, settings files location, how to configure notifying alarms, and how to configure a text message device.



2 Send Text Message when Alarms are Received

The system may be configured to send a text message (SMS) when it receives an alarm. This would typically be applied to a system running as a gateway, which receives alarms for a site. However, an NVR could also be configured as a local base-station which receives site alarms (see Configure Servers for information on base-stations). The system sends text messages using a modem, or similar SMS device.

Configuration of the system to send text messages upon receipt of alarms is done by editing certain settings files in the CathexisVision installation folder. This section describes the processes of editing these settings files to configure the system to send text messages.

a. Supported Platforms

Supported Platforms

Windows and Linux.

Supported Software

CathexisVision 2014.4 and later.

Supported Modems

For supported/tested modems, consult this page:

<https://integrations.cathexisvideo.com/supported-integrations/modem/>

b. Settings Files Location

Unless a different installation folder was selected during the install process, the default path is:


C:\Program Files\CathexisVision Server

Currently, only the GSM modem (connected to a serial port) is supported.

c. Configure Notifying Alarms

The settings file must be edited in order to configure which alarms will generate SMS notifications, and to whom they will be sent. Changes made to the settings file will reflect immediately. The CathexisVision software does not need to be restarted for these changes to take effect.

Please rename the file below in order for it to become active in the CathesisVision software. See instruction below.

Required File	 alarm_rx_sms.txt.example This file needs to be renamed in order to become active in CathesisVision. Rename it as below.	
Rename:	alarm_rx_sms.txt	
Default Location	C:\Program Files\CathesisVision Server\settings	
Structure	<pre># comment recipient xxxx [alarm type] [alarm type] [alarm type] # comment recipient yyyy [alarm type] [alarm type]</pre>	
File Configuration Guide		
# comment	Add a comment about the particular alarm configuration in the settings file. E.g., the name or position of the recipient. Any text following the hash (#) symbol will only be read as comment in the file and will not be included in the SMS notification.	
Recipient xxxx	Replace [xxxx] with the cell phone number to which SMS notifications should be sent. Multiple recipients receiving the same or separate alarms may be added. See 3.3.1.3 Example 3 , below.	
[alarm type]	Replace [alarm type] with the parameters required to cause an SMS to be sent. Multiple parameters may be set. Options are:	
	tech	Enter this to specify that technical alarms will send SMS notifications.
	event low/medium/high	Enter [event low/event medium/event high] (either one, all, or a combination) to specify that event alarms with corresponding priority levels will send SMS notifications. Note: Event priority levels are set up when configuring events. See the Events section of this manual.

	event all	Enter [event all] to specify that all event alarms (regardless of whether a priority level has been configured) will send notifications.
	pattern abc	<p>Enter [pattern abc], where [abc] is the event description. This is used to further refine which alarms will send notifications.</p> <p>Note:</p> <ol style="list-style-type: none"> 1. Event descriptions are setup when configuring events. See the Events section of this manual. 2. The pattern uses regular expression to match the pattern to the event description. 3. Regular expressions are case sensitive. Ensure the pattern case matches that of the event description.

Example

Below are examples of possible file configurations.

- **Example 1: Specified Alarms**

<u>Structure</u>	<u>Description</u>
recipient 062123456 tech	The specified recipient will receive SMS notifications for all technical alarms.
recipient 064987654 event low event high	The specified recipient will receive SMS notifications for all events marked as 'low priority' and 'high priority' in CathexisVision.

- *Example 2: Alarm Description Pattern*

<u>Structure</u>	<u>Description</u>
recipient 0837654321 tech event all pattern beware	The specified recipient/s will receive SMS notifications for all event and technical alarms, but only if the alarm description/s start with “beware.”

- *Example 3: Multiple Recipients*

Multiple recipients can be entered into the settings file. Recipients (and alarm parameters) must be listed individually in the file, even for multiple recipients receiving the same alarms:

<u>Structure</u>	<u>Description</u>
recipient 0837654321 tech event all pattern beware	In this example, many recipients are listed. The first three recipients will all receive SMS notifications for the same alarms, while the fourth and fifth will receive an SMS notification for a different alarm.
recipient 08664537865 tech event all pattern beware	
recipient 0728078654 tech event all pattern beware	
recipient 0843928080 event medium	
recipient 0617654387 event high	

- *Example 4: Comment*

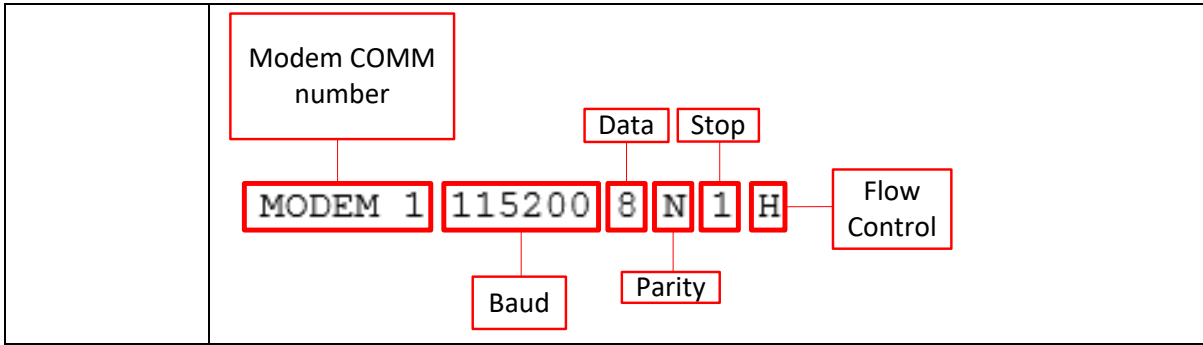
<u>Structure</u>	<u>Description</u>
# Daryl Smith – Line Manager recipient 0837654321 tech event all	The text following the hash (#) symbol is a comment in the file (and not included in the SMS). In this example, the recipient will receive an SMS notification for all technical alarms and all events. The comment in the file indicates the recipient’s

	name and position in the company, and is useful for internal reference.
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d. Configure Text Message Device

The text messaging (SMS) device needs to be configured to send text messages. This is done by editing the settings file. Changes made to the settings file will reflect immediately. The CathexisVision software does not need to be restarted for these changes to take effect.

Required File	<p><u>sms_device.txt.example</u></p> <p>This file needs to be renamed in order to become active in CathexisVision. Rename it as below.</p>
Rename:	<p><u>sms_device.txt</u></p> <p>(Remove the 'example' from the original file name.)</p>
Default Location	C:\Program Files\CathexisVision Server\settings
Structure	<pre> ----- # Format for specifying a modem: # MODEM COMM BAUD DATA PARITY STOP FLOW_CONTROL # PARITY=(N)one/ (O)dd / (E)ven # FLOW_CONTROL= (H)ardware / (S)oftware / (N)one # eg MODEM 1 115200 8 N 1 H = COMM 1 at 115200 baud 8N1 with hardware flow control MODEM 1 115200 8 N 1 H ----- </pre>
Description	<p>This settings file should indicate the Modem Comm, Baud, Data, Parity, Stop bit, and Flow Control for the relevant modem.</p> <p>Once the file is edited with the appropriate details, the file should only contain a single line indicating these settings. Taking the example above, delete everything in the file except for the last line:</p> <pre>[MODEM 1 115200 8 N 1 H]</pre> <p>Edit this line with the relevant modem details. See below for a breakdown.</p>



3 Conclusion

Please note that this manual was designed to deal specifically with SMS Modem Installation. For further information about the CathesisVision software, consult the main manual (<http://cathesisvideo.com/>). For support, email support@cat.co.za