

LCArmConfig

User manual



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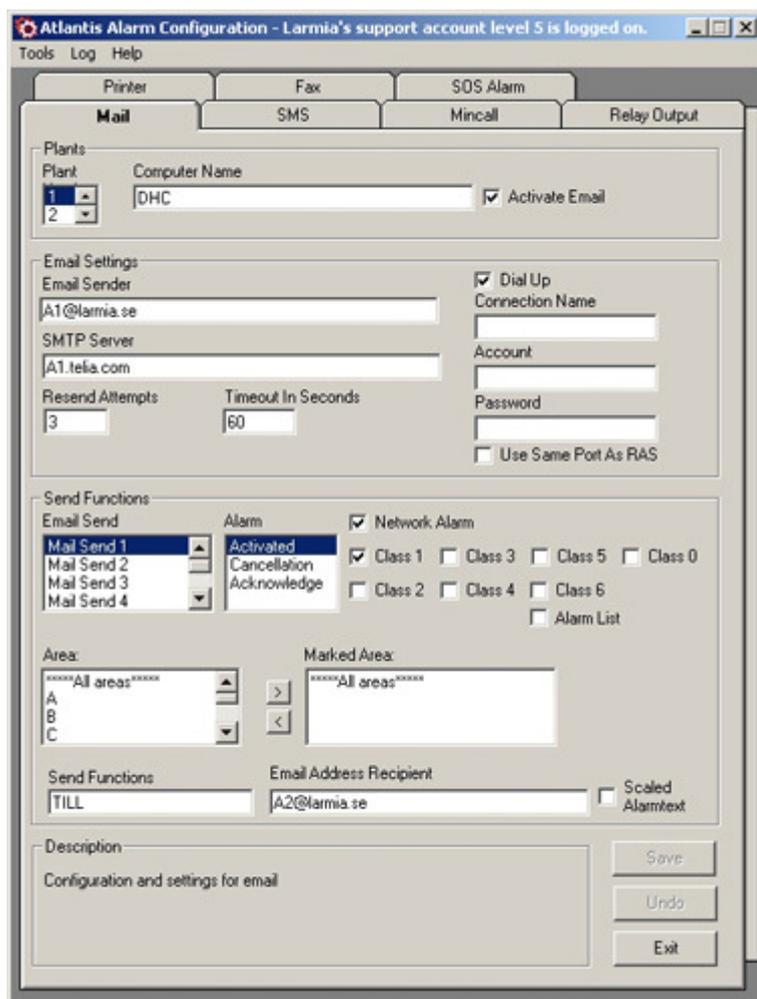
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Alarm Configuration

LCAlarmConfig (configuration software for the AlarmServer)

- Program module for sending alarms to different receivers.
- Built-in test alarm for easy simulation.
- Updates and settings are easily made through the configuration interface.
- Detailed text log on all events.
- Simple input using "popup" windows.
- 20 different transmissions for each transmission type.
- The server is capable of handling several plants (servers) via network (TCP/IP).
- Handles both outgoing alarms and incoming calls on the same COM port.
- Settings for incoming calls.



MENU



Tools



Test Alarm (hotkey "F2")

Creates a test alarm in the **Larmia.lar** folder (103Alarm.txt-110Alarm.txt). This eliminates the need for creating a test alarm in Atlantis.

Plant number (id)

The plant to be tested.

Plant name

Optional name which will be presented to the receiver.

Group name

Optional name which will be presented to the receiver.

Object name

Optional name which will be presented to the receiver.

Status text

Optional name which will be presented to the receiver.

Object type

Object type to be tested.

Alarm class

Alarm class to be tested.

Alarm

Alarm status to be tested.

Areas

Area to be tested.

Create scheduled alarm

Creates an alarm file and a command file in the **Larmia.lar/Schemalagd** folder. Create a Scheduled Activity in Windows and link the command file to this activity. The test alarm will be sent according to the time set in the activity.

Show log window

Displays the log window.

Send alarm

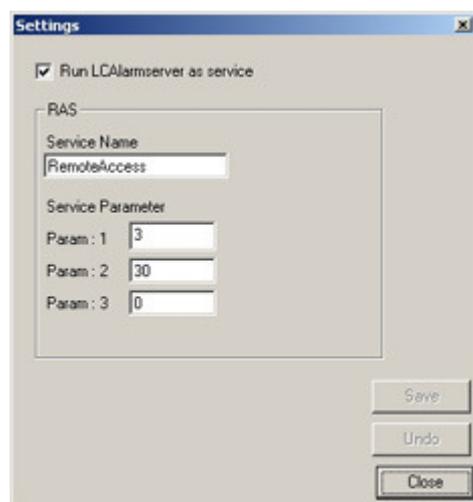
Creates and sends a test alarm.

Close

Closes the dialog.

Update

Updates the Alarm Server with the latest settings.

Settings**Run the server as a Service**

If the server should be started by LCService

RAS

Service name

The name of the Service to be used.

Param : 1

Param : 2

Param : 3

Save

Saves the settings.

Restore

Restores the last saved settings.

Close

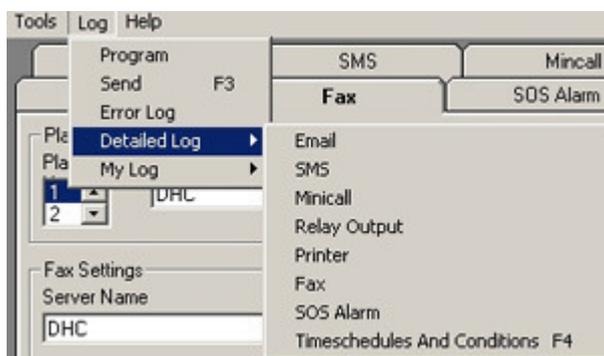
Closes the dialog

Convert



Converts the alarm settings from the Registry to the new format and adds the computer name. It only converts settings for SMS, Minicall and relay outputs. Click **Convert** to start the conversion. Click **Cancel** to close the dialog.

Logs



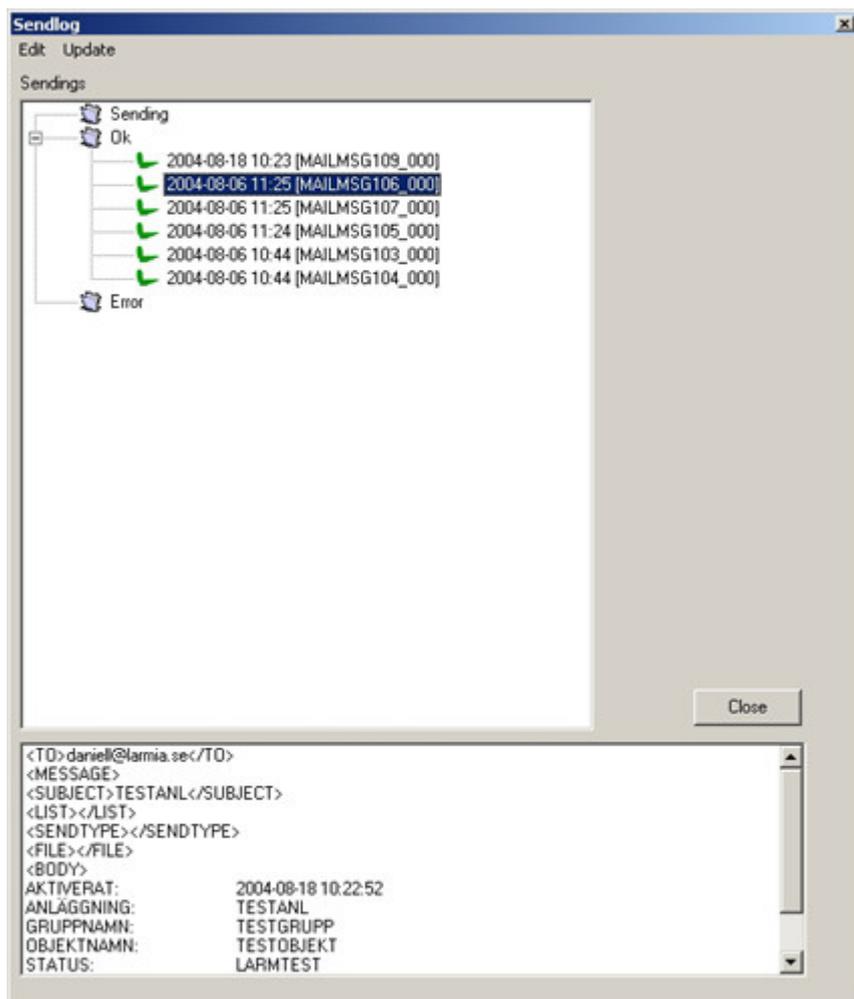
System

Displays the system log for the Alarm Server.

- Shows when alarms have been read and deleted.
- Initiation of Time Schedules and Conditions.
- Shows where the alarms are added.

Transmissions

Displays the current and historical logs of the alarms.



Sending

Shows alarms which currently are being sent.

OK

Shows alarms which have been sent.

Error

Shows errors during alarm transmissions.

Right click in a log to display the following menu:

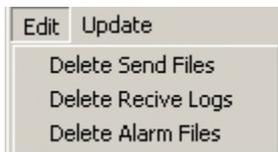


Show Send Log

Displays what has or is to be sent.

Show Receive Log

Displays the history of the respective receiver log.



Delete transmission files

Deletes all transmission files.

Delete log (receiver types)

Deletes all receiver logs.

Delete alarm files

Deletes all alarm files located in the Larmia.lar folder.

Update or hotkey "F5"

Updates the log window

Error log

Displays a text file with all error logs.

Detailed log

Email

Shows a detailed log the receiver type **Email**.

SMS

Shows a detailed log the receiver type **SMS**.

Minicall

Shows a detailed log the receiver type **Minicall**.

Relay output

Shows a detailed log the receiver type **Relay output**.

Printer

Shows a detailed log the receiver type **Printer**.

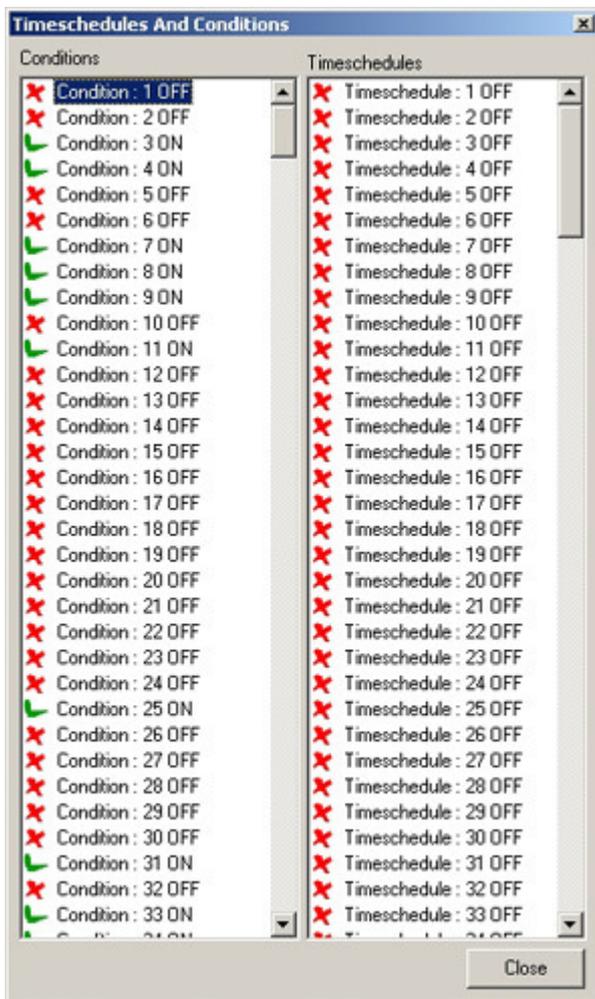
Fax

Shows a detailed log the receiver type **Fax**.

SOS Alarm

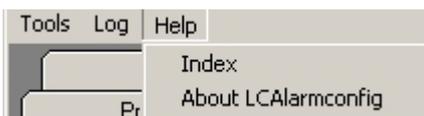
Shows a detailed log the receiver type **SOS Alarm**.

Conditions and Time Schedules



Displays the current status of Conditions and Time Schedules.
This window is updated every three seconds.

Help



Index

Displays the help topics

About LCAAlarmConfig

Displays the version number and the licence key.



Transmission Types

Email

Email transmissions.
Sends alarms to an email address.

SMS

SMS transmissions.
Sends alarms to a SMS number.

Minicall

Minicall transmissions.
Sends alarms to a Minicall number.

Relay output

Relay output transmissions.
Closes a relay contact in a relay box. Used for i.e. transmission through Robofon alarm transmitters.

Printer

Printer transmissions.
Prints alarms on a printer.

Fax

Fax transmissions.
Sends alarms to a fax number.

SOS Alarm

SOS Alarm transmissions.
Sends alarms to a SOS Alarm central.

Common for these transmissions

Plants

Plant Nr

Plant number (ID).

Computer name

Computer name or IP address. Can also be a local path or a path to a network share.

Activate checkbox

Use this checkbox to activate/deactivate each transmission type.

Save button

Saves the settings. If you switch to another tab without saving, a message will be displayed prompting you to save the changes.

Restore button

Restores to the last saved settings.

Exit button

Exits the program.

Areas:

Areas are created/defined in the editing software (LCEdit.exe).



Areas

Areas in the system.

Selected areas

Alarms belonging to these areas will be transmitted.



Arrow right

Add the selected area.



Arrow left

Remove the selected area.

Quick Functions

If you right-click in i.e. the **SMS Modem initiation** text field some standard options are displayed. Click one of these to paste the value into the text field.

Text fields with quick functions are:

Mail

Function control for sending

SMS

Function control for sending.
Modem initiation (Powerbit modems only).
Modem reset (Powerbit modems only).
Modem pool number (Swedish operators only).
GSM Service Number

Minicall

Function control for sending.
Modem initiation (Powerbit modems only).
Modem reset (Powerbit modems only).
Paging Service Number with prefix

Relay output

Function control for sending

Printer

New port.
Function control for sending.
Extra text condition

Fax

Function control for sending

SOS Alarm

Primary SOS address.
Secondary SOS address.
Port.
Acknowledgement.
Function control for sending

File structures of the Alarm Server

Files needed for the alarm handling

Larmia.prg

LCServer

The Atlantis Server.

LCAlarmConfig

Configuration for the Alarm Server. Saves the settings in LCAlarm.mdb instead of the registry.

LCAlarmServer

The Alarm Server.

LCDB.dll

LCEdit.exe

Only for managing alarm areas.

Lservice.exe

LCClient

Has an extra button called **Alarm Configuration**.

Larmia.lar

LCAlarm.mdb

Password protected database for alarm settings. Must be connected to ODBC with the name LCAlarm, using the Microsoft Access Driver (*.mdb).

Larmia.lar\FAX\Header

FaxHeader.txt

Used for inserting a fax header into every outgoing fax.

Files that are created

Larmia.lar

xxxAlarm.txt

Alarm files.

Villkor.txt

A file containing all the Conditions in the PC. Updated every minute by the Atlantis Server (LCServer).

Tidkanal.txt

A file containing all the Time Schedules in the PC. Updated every minute by the Atlantis Server (LCServer).

InfoAlarmServer.txt

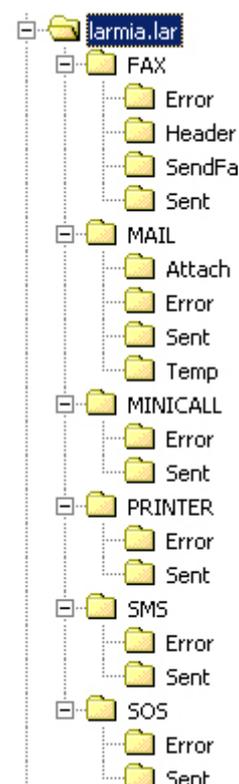
Log file for the Alarm Server. Contains information about when alarm files are read and deleted.

Mail.txt

SMS.txt

Minicall.txt

Fax.txt



LoadMe.txt

A file for automatic update of the Alarm Server. This file is created by LCAAlarmConfig. The Alarm Server uses this file to know when to update.

Printer.txt**Errorlog.txt**

Error log.

Settings

Create a dial-up connection for email transmission

Configure a remote connection with phone number, user name and password.
 Test the connection by going online.
 Check the **Dial-up** checkbox on the **Mail** tab in LCAAlarmConfig.exe.
 Enter the name of the connection in the **Connection Name** text field.

Printer configuration

Matrix printer OKI MICROLINE 280
 PITCH 10
 MODE UTILITY

Serial communication

Install a printer locally (Generic / Text Only).
 Print a test page from **Notepad.exe**.

Port settings:

Speed: **9600**
 Data bits: **8**
 Parity: **none**
 Stop bits: **1**
 Flow control: **none**
 FIFO: **activated**

Switches:

DIP SW.: 00011010
 SW1: 11111101
 SW2: 01100110

Parallel communication

Port settings:

Activate **Identify older Plug and Play units**.
 Do not use interrupts.

Switches:

DIP SW.: 00011010

TCP/IP communication

Create a new port in LCAAlarmConfig, **xxx.xxx.xxx.xxx\dddd**
xxxx = IP address
dddd = IP port number

Settings for LANTRONIX RS232

Printer		LANTRONIX
25 pin Male		
3	->	4
7	->	8
11	->	2

Fax configuration

Windows 2000

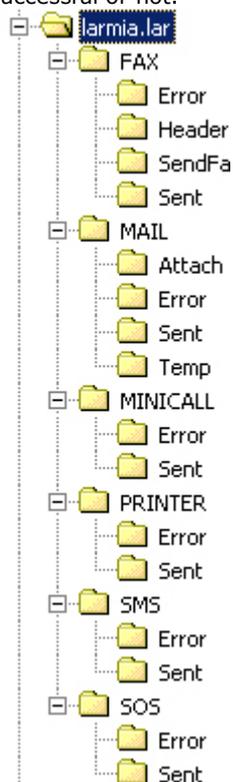
Go to **Fax** in the Control Panel.
 Open the **Advanced Options** tab and click **Add a Fax Printer**.
 Open the **Fax Server Management Console** and select which modem to use.
NB! The modem must be installed before you select a fax modem!
 Go to the **User Information** tab and enter a name in the **Company** field. This is the name that will be printed on the fax.

Windows XP

Go to **Printers and Fax** in the Control Panel.
 Install a local fax printer.
 Use the fax printer as default.

Course of events

- When an alarm occurs in the system, the LCServer creates a text file named **XXXAlarm.txt** in the **Larmia.lar** folder. XXX is a number between 0 and 110 and is used as an identifier:
1-101 are alarms that originates from LCServer.
102 are network alarms.
103-110 are used for alarm testing from the configuration software (LCAlarmConfig.exe)
- The Alarm Server checks the alarm file and creates an XML file for each transmission type used. This/these file(s) is created under the corresponding folder(s).
- When the alarm is sent, a history file is created in the **Sent** or **Error** folder, depending on whether the transmission was successful or not.



NB! If a Time Schedule or a Condition is used, it can take up to one minute before it switches to 'ON' or 'OFF'.

Email

Email settings

Email address (sender)

The email address of the sender. This address is shown in the "FROM" field of the message.

SMTP server

Outgoing email server.

Dial-up

If a dial-up connection will be used.

Connection name

The name of the remote connection.

User name

User name for the remote connection.

Password

Password for the remote connection.

Use same port as RAS

If RAS is attached to the same COM port.

Resend attempts

How many attempts the Alarm Server will make to resend when a transmission fails.

Resend interval

The interval between resends.

Functions for sending

Email transmissions

Selection of email transmission; 1-20.

Alarm

Selection of alarm status;
Activation, Cancellation or Acknowledgement.

Alarm class

Network alarm:

Used if there are several plants or if the Alarm Server is located on a computer not running the Atlantis Server. An alarm is sent when the connection between the Alarm Server and the Atlantis Server is broken.

Class 1-6:

The alarm class to be sent.

Send list:

Sends a list of selected alarms. The function control for sending must be a Condition or a Time Schedule. The alarm list will be sent when the function control is activated (ON). If the function control is inactive (OFF), the alarms will be added to the list.

As file

If the list should be sent as a text file or as plain text in the email.

Scaled alarm text

Only if Send List isn't activated. Removes unnecessary information from the message. Used for forwarding to e.g. SMS.

Function control for sending

Time Schedule, Condition, TILL (ON) or FRÅN (OFF).

The function control must be activated in order for the alarm to be sent.

Email address (receiver)

The email address of the receiver.

SMS

SMS settings

Port with modem connected

The COM port which the modem is connected to.

Modem initiation

Initiation string for the modem.

Modem reset

Reset string for the modem.

Modem pool number

Service number for the SMS modem pool.

Number of SMS messages / connection

The number of SMS messages to be sent when connected. This number is useful when using modem pools that handle more than 2 messages per connection. If you the quick function (right-click), this field will be filled automatically, otherwise a number must be entered manually.

NB ! If this field is blank, the standard value (2 messages / connection) will be used.

Sender number

This number will be shown as the sender in the SMS.

Use same port as RAS

If RAS is attached to the same COM port.

GSM Modem

If using a GSM modem

Service number

Phone number of the SMS service used.

PIN code

PIN code for the subscription card in the GSM modem.

Resend attempts

How many attempts the Alarm Server will make to resend when a transmission fails.

Resend interval

The interval between resends.

Functions for sending

SMS transmissions

Selection of SMS transmission: 1-20

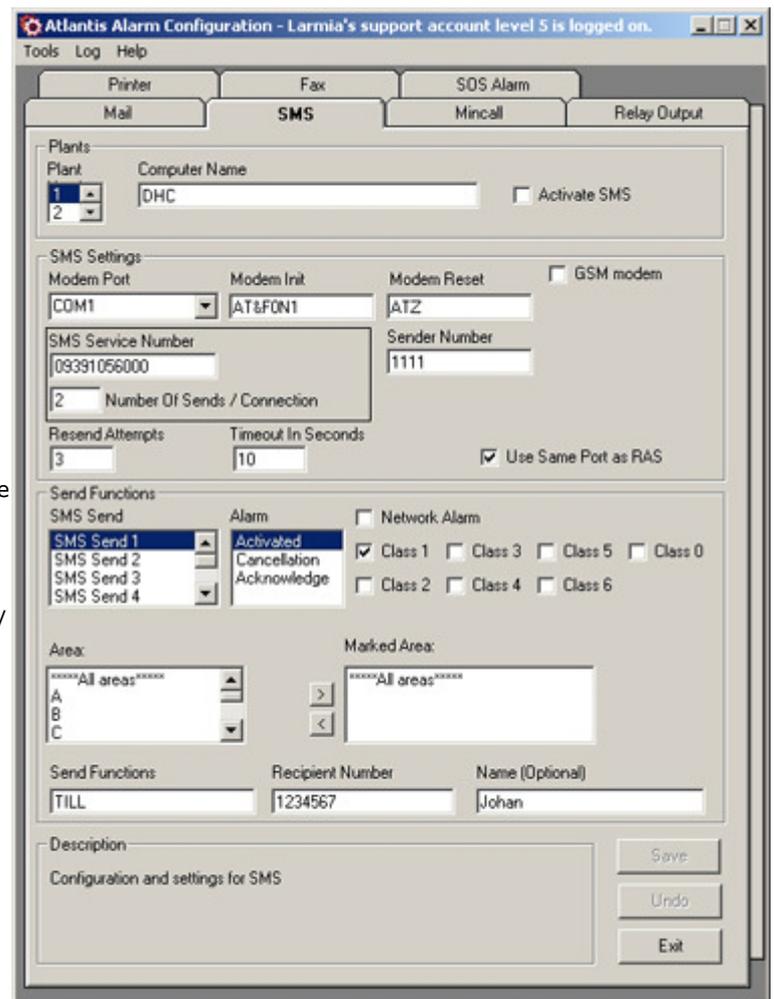
Alarm

Selection of alarm status;
Activation, Cancellation or Acknowledgement.

Alarm class

Network alarm:

Used if there are several plants or if the Alarm Server is located on a computer not running the Atlantis Server. An alarm is sent when the connection between the Alarm Server and the Atlantis Server is broken.



Class1-6:

The alarm class to be sent.

Function control for sending

Time Schedule, Condition, TILL (ON) or FRÅN (OFF).

The function control must be activated in order for the alarm to be sent.

Receiver number

Phone number of the receiver.

Name optional

Only used for naming each phone number.

Minicall

Minicall settings

Port with modem connected

The COM port which the modem is connected to.

Modem initiation

Initiation string for the modem.

Modem reset

Reset string for the modem.

Paging Service Number with prefix

The Paging Service Number for the Minicall subscription.

Sender account number

Account number for the Minicall subscription.

Sender password

Password for the Minicall subscription.

Use same port as RAS

If RAS is attached to the same COM port.

Resend attempts

How many attempts the Alarm Server will make to resend when a transmission fails.

Resend interval

The interval between resends.

Functions for sending

Minicall transmissions

Selection of Minicall transmissions; 1-20

Alarm

Selection of alarm status;
Activation, Cancellation or Acknowledgement.

Alarm class

Network alarm:

Used if there are several plants or if the Alarm Server is located on a computer not running the Atlantis Server. An alarm is sent when the connection between the Alarm Server and the Atlantis Server is broken.

Class 1-6:

The alarm class to be sent.

Function control for sending

Time Schedule, Condition, TILL (ON) or FRÅN (OFF).
The function control must be activated in order for the alarm to be sent.

Receiver number

Phone number to the receiving Minicall unit.

Optional name

Only used for naming each phone number.

Relay Output

Used for i.e. transmission through Robofon alarm transmitters.

Relay settings

Connected port for relay outputs

The port which the relay output box is connected to.

Functions for sending

Relay output

Selection of relay outputs: 1-8

Function control for sending

Time Schedule, Condition, TILL (ON) or FRÅN (OFF).
The function control must be activated in order for the alarm to be sent.

The screenshot shows the 'Atlantis Alarm Configuration' window. The title bar indicates 'Larmia's support account level 5 is logged on.' The interface has a menu bar with 'Tools', 'Log', and 'Help'. Below the menu bar are several tabs: 'Printer', 'Fax', 'SMS Alarm', 'Mail', 'SMS', 'Mincall', and 'Relay Output'. The 'Relay Output' tab is active. The main area is divided into several sections:

- Plants:** A 'Plant' dropdown menu is set to '1'. A 'Computer Name' text box contains 'DHC'. There is a checked 'Activate Relay' checkbox.
- Relä inställningar:** A 'Connected Port For Relay Outputs' dropdown menu is set to 'COM1'.
- Send Functions:** A 'Relay Output' dropdown menu is set to '1'. Below it, a 'Send Functions' text box contains 'TILL'.
- Description:** A large empty text area for notes.

At the bottom right, there are three buttons: 'Save', 'Undo', and 'Exit'.

Printer

Printer settings

Printer port

The port which the printer is connected to.

New port

Creates a new port i.e. an IP port.

Add

Adds the port indicated in the text field.

Delete

Deletes the selected port.

Functions for sending

Alarm

Selection of alarm status;
Activation, Cancellation or Acknowledgement.

Alarm class

Network alarm:

Used if there are several plants or if the Alarm Server is located on a computer not running the Atlantis Server.
An alarm is sent when the connection between the Alarm Server and the Atlantis Server is broken.

Class1-6:

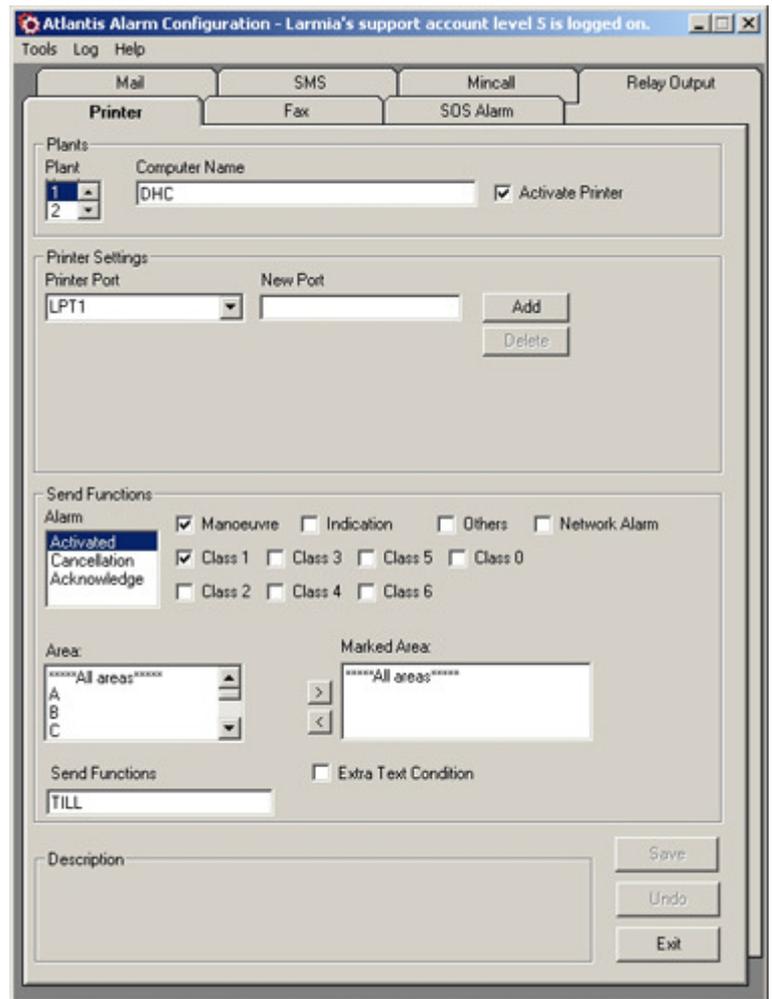
The alarm class to be sent.

Function control for sending

Time Schedule, Condition, TILL (ON) or FRÅN (OFF).
The function control must be activated in order for the alarm to be sent.

Condition for extra text

Prints extra text if the text field is TILL (ON).



FAX

Fax settings

Server name

The name of the computer running the fax server, usually the computer name or the IP address.

Fax header

If a fax header should be included in the fax.

Resend attempts

How many attempts the Alarm Server will make to resend when a transmission fails.

Resend interval

The interval between resends.

Functions for sending

Fax transmissions

Selection of fax transmission; 1-20.

Alarm

Selection of alarm status;
Activation, Cancellation or Acknowledgement.

Alarm class

Network alarm:

Used if there are several plants or if the Alarm Server is located on a computer not running the Atlantis Server.
An alarm is sent when the connection between the Alarm Server and the Atlantis Server is broken.

Class1-6:

The alarm class to be sent.

Function control for sending

Time Schedule, Condition, TILL (ON) or FRÅN (OFF).
The function control must be activated in order for the alarm to be sent.

Fax number

The phone number of the receiving fax machine.

The screenshot shows the 'Atlantis Alarm Configuration' window. The 'Fax' tab is selected. The 'Plants' section shows 'Plant 1' selected with 'Computer Name' set to 'DHC' and 'Activate Fax' checked. The 'Fax Settings' section shows 'Server Name' as 'DHC' and 'Fax Header' checked. 'Resend Attempts' is set to 3 and 'Timeout In Seconds' is 30. The 'Send Functions' section shows 'Fax Send' as 'FAX Send 1', 'Alarm' as 'Activated', and 'Network Alarm' unchecked. 'Class 1' is checked, while 'Class 0', 'Class 2', 'Class 3', 'Class 4', and 'Class 5' are unchecked. The 'Area' and 'Marked Area' are both set to 'All areas'. 'Send Functions' is 'TILL' and 'Fax Number' is '081234567'. The 'Description' field contains 'Configuration and settings for fax'. Buttons for 'Save', 'Undo', and 'Exit' are visible at the bottom right.

SOS Alarm

SOS settings

Primary SOS address

Address to the primary SOS sever used for the first 3 tries.

Secondary SOS address

Address to the secondary SOS server used for the next 3 tries.

Port

The port used for sending messages to the SOS server.

Acknowledgement Time-out

Time-out for response from the SOS server.

User name

User name for the SOS account. Provided by SOS Alarm.

Password

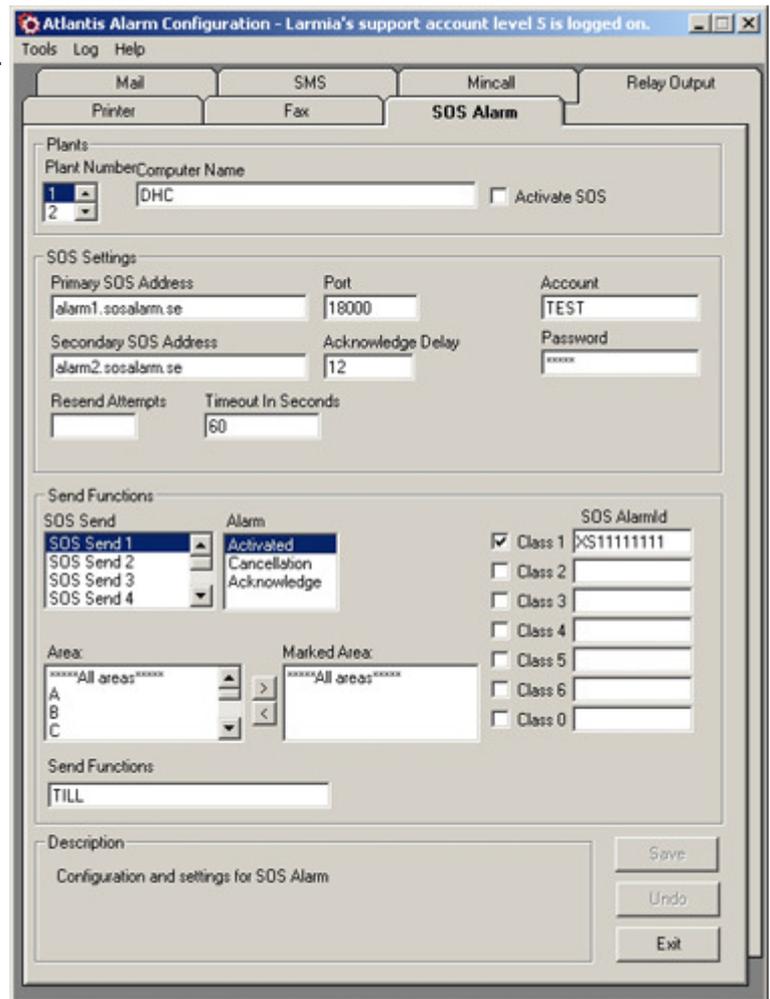
Password for the SOS account. Provided by SOS Alarm.

Resend attempts

How many attempts the Alarm Server will make to resend when a transmission fails.

Resend interval

The interval between resends.



Functions for sending

SOS transmissions

Selection of SOS Alarm transmission: 1-20

Alarm

Selection of alarm status;
Activation, Cancellation or Acknowledgement.

Alarm class

Network alarm:

Used if there are several plants or if the Alarm Server is located on a computer not running the Atlantis Server. An alarm is sent when the connection between the Alarm Server and the Atlantis Server is broken.

Class 1-6:

The alarm class to be sent.

SOS Alarm ID

Alarm ID for each alarm class. Provided by SOS Alarm.

Function control for sending

Time Schedule, Condition, TILL (ON) or FRÅN (OFF).
The function control must be activated in order for the alarm to be sent.

Troubleshooting

Transmission errors

- Is the Alarm Server updated with the latest settings?
- Check that an alarm file, named **XXXAlarm.txt**, is created in the **Larmia.lar** folder.
The structure of the file is:

Flag;Plant;Plant name;Object number (id);Object name;Object type;Group number (id);Group name;Class;Code;Status;Value;Date;Time;Area;Alarm class;

Each value is separated by a semi-colon (;).

Example:

1;1;TEST PLANT;12;TEST OBJECT;1;4;TEST GROUP;A;14;ALARM TEST;0;2004-04-15;15:52:21;1,2;A;

- **Files are not created:**

Is the **Larmia** folder shared as **Larmia\$**?

Is the computer name correct in LCArmConfig? Try using the IP address instead.

- **Files are created:**

Check the transmission log to find out if the alarm was an error or if it's still sending:

If it's still sending there might be a problem with the modem.

Check the transmission log via LCArmConfig:

If the function control for sending is a Time Schedule or a Condition; Try writing **TILL** (ON) instead.