



TELEDIF ITALIA

lavorare con amore è il vincolo che ci unisce ai nostri clienti



User and Installation Guide

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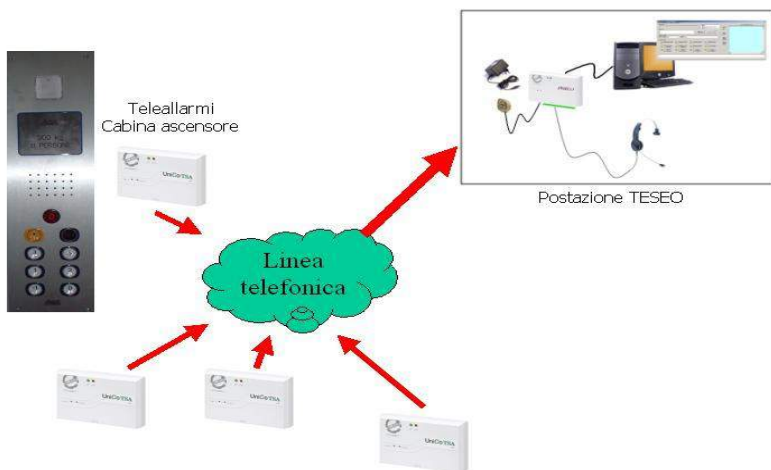


INTRODUCTION

Teseo is an application for the automatic management of alarms generated by emergency systems.

Teseo is designed to operate with the Teledif emergency systems (T.gsm, T.tel and TSA) but it can be properly configured to be used with any emergency system that use DTMF tones to communicate with the central system.

Teseo must operate in conjunction with the Philo device; Philo is designed to receive data from the telephone line encoded as DTMF tones and transfer them to the PC via the serial port. Philo is the bidirectional gateway between the PC and the remote emergency systems connected via PSTN and/or GSM lines.



Philo is also equipped with an headset connector (loudspeaker and microphone) or a telephone and with two relay contacts that can be associated to specific functions of the Teseo application.

When receiving a call Teseo, through the Philo interface, answers and send to the emergency device the request for ID message, as specified by the calling device, and then it waits for the ID code and for the alarm type.

All received calls are stored in a database that is available to the user for query, filter and print functions.

A specific function can be associated to any type of alarm, for instance: open the voice communication, activate a relay, put on hold or transfer the call to another line, store the call and drop the communication, send email and sms, play an audio file, run an external program.



INSTALLATION

Philo Installation

- Connect the serial port of the computer to the RS232 input of Philo
- Connect the telephone line to the line input of Philo with a RJ11 cable
- Connect the power supply adapter and feed the equipment
- Connect, if required, the 2 relays output lines and the telephone headset

Philo does not require any special hardware setting, anyhow, once connected the DB9 cable to the COM port it is possible to test the functionality using a standard terminal emulation program (i.e. Hyperterminal); the serial port must be set to 9600 bps, no parity, 8 bit, 1 stop bit. Proper operation is confirmed by the prompt RDY on the window.

Refer to Appendix A for Philo commands and for applications different from Teseo.

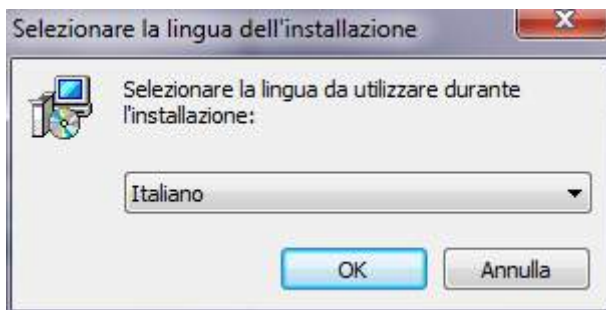


Teseo software installation

Insert the installation CD in the CD drive. The installation program will start automatically, in case it does not start select Computer Resources, CD Drive and then start the **autorun.exe** application.

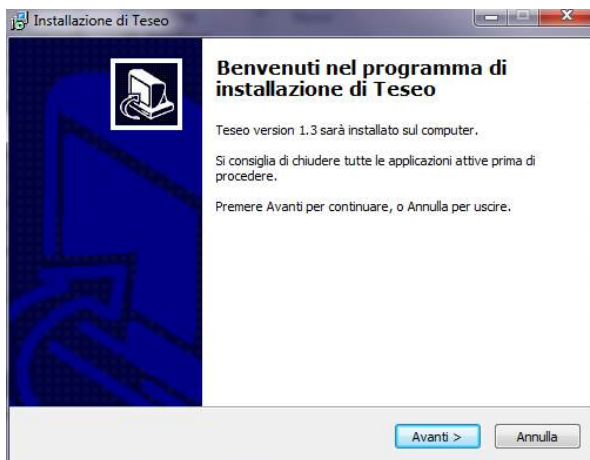


Select Installation.

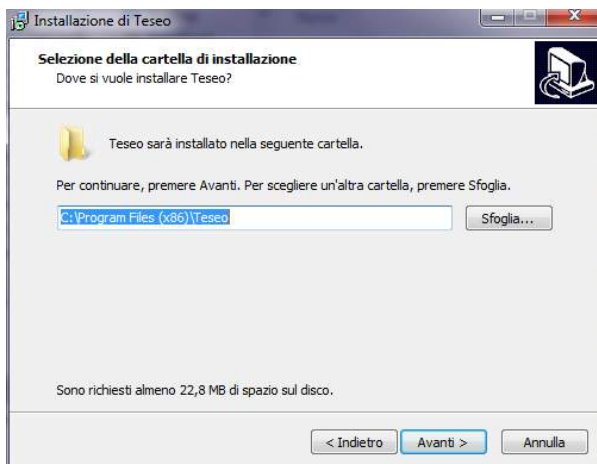


Select the installation language and press OK.

Press NEXT.



Confirm the Path and press NEXT.



Teseo

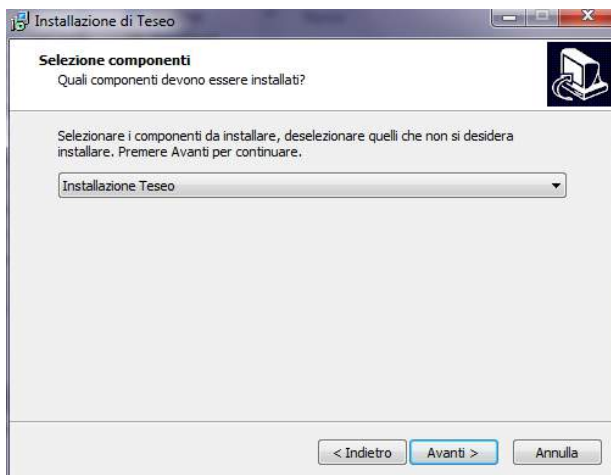


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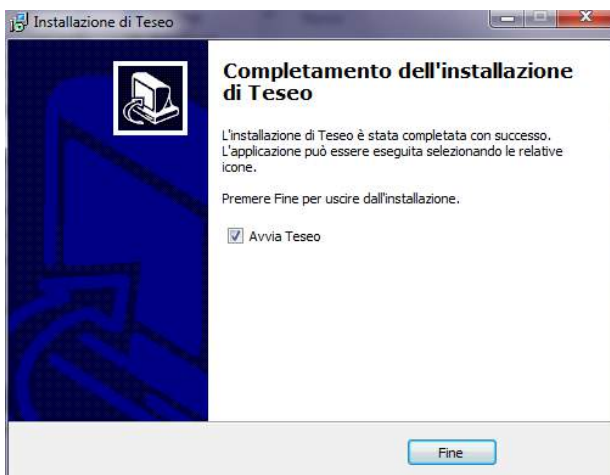
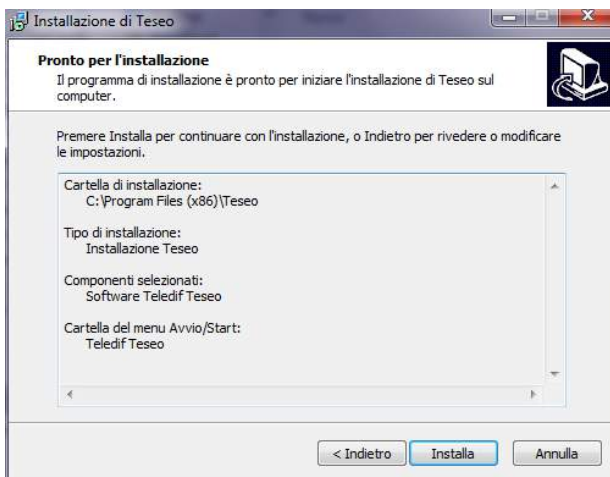
ATTENTION: in the next window select:

- **Teseo Installation** (only if it is the first installation)
- Update installation (if it is an update of an existing installation)



Select the choice and press NEXT.

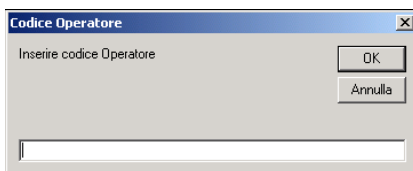
Press again NEXT and start the installation pressing INSTALL.



When the installation is complete it is possible to directly start the application pressing END.

FIRST START OF THE APPLICATION:

Run the program from menu **START->Teledif->Teseo**



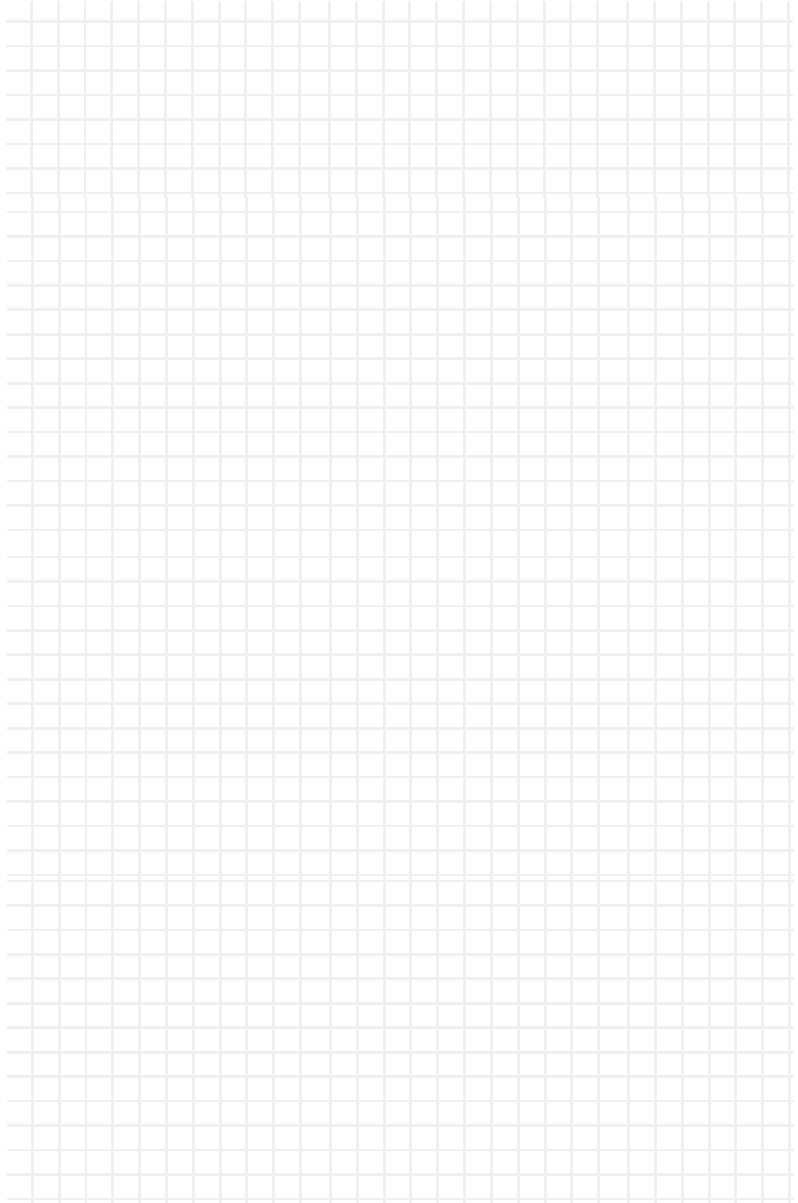
Operator Login

When starting, Teseo requests the operator code.

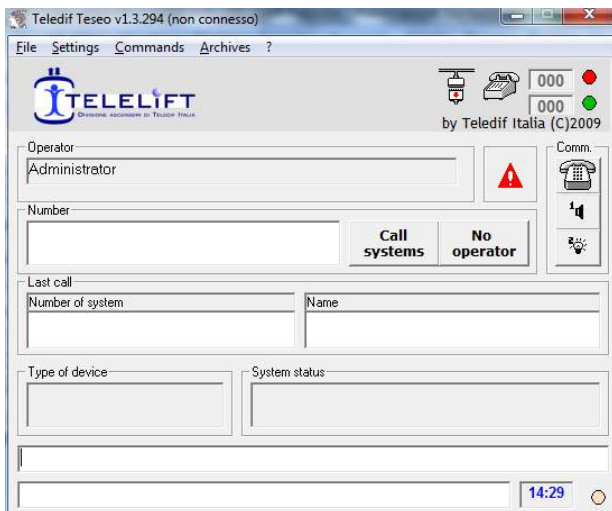
At the first start the default code is **1111** for the *Administrator*; it can be then modified and as well more operators can be created.

At the first configuration of the application it is strongly recommended to change the Administrator code.

Only the administrator can change the archives and program configurations.



OPERATION



MAIN WINDOW

Teseo, when started and unlocked with a valid operator code, connects to the serial port and waits for a call (if the autoanswer is set).

If a valid CLI (Calling line number) is recognized, the system checks for a correspondence in the file and starts processing the call: it answers and starts data exchange or does not answer and logs a diagnostic call.

In case the CLI is not present Teseo answers after the number of rings set in the parameters and starts the data exchange procedure.

After the time duration defined in the Timer parameters



Teseo send a DTMF code requesting the System ID from the remote device; if it does not receive an ansie, it sends a secondary code. If there is valid answer this procedure is performed three times before disconnecting.

At the expiration of the timeout with no valid answer the call is disconnected or executes a default action.

Based on the device connected Teseo is listening for an identification and event code .

An ID is valid if it has at least 2 characters; the last character is identified from a end of selection pause. If the ID is identified as a valid string is then compared with the database and the code that identify the event is retrieved.

The event is then displayed on the monitor in the main window together with the System ID.

When receiving an event the system start a procedure, this is described in the table "actions". A procedure can open the command mask, sound a warining message, activate a relay, and more.

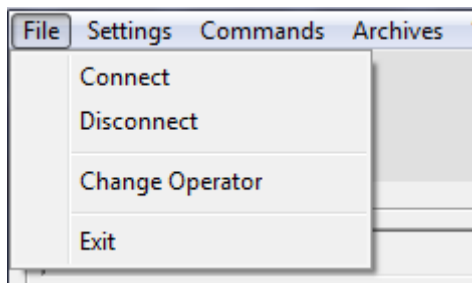
In case the ID is not in the database the call is processed and stored as an unknown event.

The calls are stored in the events database and are displayed in the queue window until they are checked by an operator with a manual operation (if set in the action table).

All the events can be displayed, printed, exported and canceled from the events database.



FILE MENU



Connect / Disconnect a serial port

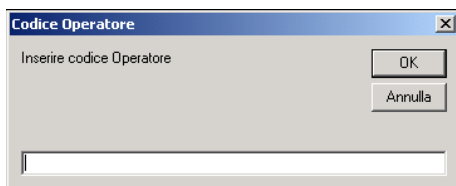
When Teseo is started the serial port is automatically connected. It can be disconnected to stop the connection with Philo.

The connection is displayed with the icon.



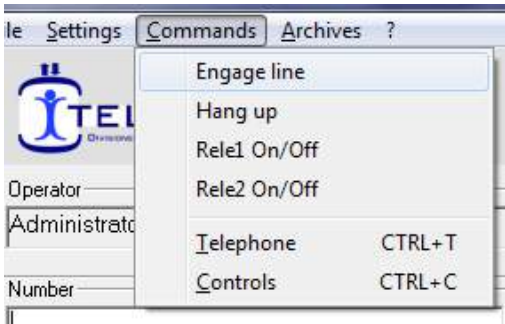
Change operator

This option allows to change the current operator; select *File->Cambia Operatore*. The system will require the new login.



When entering three times a wrong login the program will shut down and must be restarted.

COMMAND MENU



Engage line

Engage the telephone line

Hang up

Disconnect the telephone line

Relay 1 ON/OFF

Enable or disable the Relay 1 (Relay 1 is normally ON when a line is engaged during a call in order to enable an headset or a telephone)

Relay 2 ON/OFF

Enable or disable the Relay 2

Telephone

A telephone keyboard is displayed on the screen and can be used to dial from Philo as a standard telephone set.



Engage the line

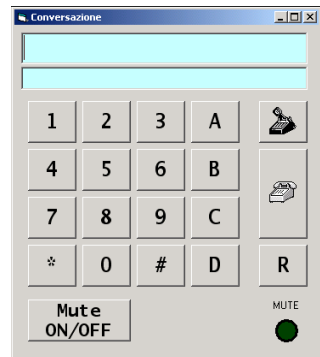


Disconnect the line

R = FLASH key (hold)

1-0 ABCD*# = DTMF tone

MUTE ON/OFF = Mute microphone



Cabin Commands



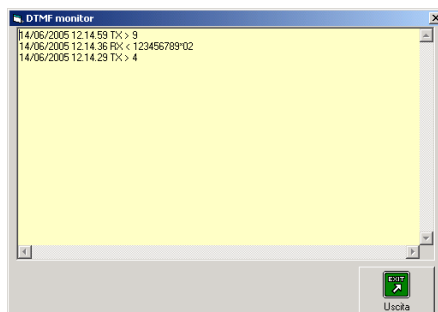
The cabin commands activate macro functions useful during the conversation with a remote peripheral; the macros have a correspondence in the action table, and in particular:

The actions associated to the commands are defined in the device table.

DTMF Monitor

The DTMF monitor is important for analyzing the operation of a peripheral device. It shows all the DTMF tones that are sent and received in the following format:

Data and time followed by TX> (sent data) or by RX< (received data) and by the key dialled.



When the monitor is enabled the incoming calls are not recognized and the event database is not updated. The calls are stored in the log, if active (menu/settings/event log).

ALARMS QUEUE

Evento	Note	Impianto	Telefono	Nome	Data	Evento	Tipo Evento
1276		11400626		Asc. L34 Edif. D	11/11/2014	ASSENZA	Assenza segnalazione
1272		11153755		Asc. L37 Edif. M	11/11/2014	ASSENZA	Assenza segnalazione
1271		11153751		Asc. L22 Edif. C1	11/11/2014	ASSENZA	Assenza segnalazione
1270		11153750		Asc. L19 Edif. B3	11/11/2014	ASSENZA	Assenza segnalazione
1269		11153749		Asc. L14 Edif. A1	11/11/2014	ASSENZA	Assenza segnalazione
1268		11153738		Asc. L23 Edif. C3	11/11/2014	ASSENZA	Assenza segnalazione
1267		11153737		Asc. L18 Edif. B1	11/11/2014	ASSENZA	Assenza segnalazione
1266		11153736		Asc. L15 Edif. A3	11/11/2014	ASSENZA	Assenza segnalazione
1265		11153725		Asc. L11 Edif. C2	11/11/2014	ASSENZA	Assenza segnalazione

The incoming events setted as relevant are put in the queue "Alarm queue" until they are read and acknowledged by an operator.

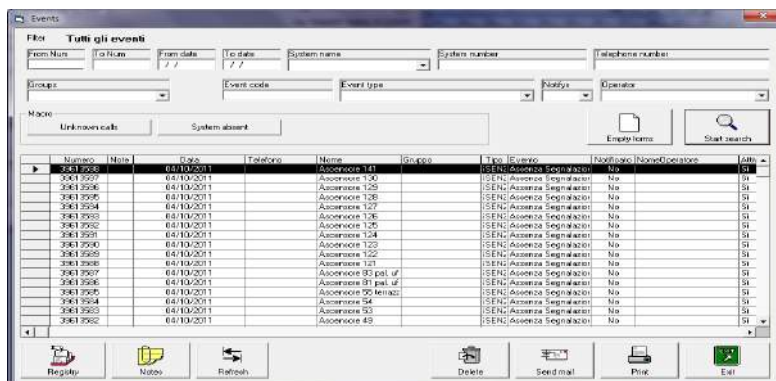
From this window it is always possible to see the full details of the calling device, just by selecting a row and pushing Anagrafica button.

The event read (if configured) is erased from the queue and moved into the historical Event database for further analysis or actions.

The Alarm queue window pop up automatically when a new alarm is received, but it can be also manually opened from menu *Archive->Alarm to notify*.

In presence of events in queue you can ear a *beep-beep* each minutes if not flag "disable audio notify" option

EVENTS ARCHIVE

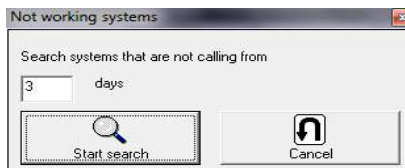


The events archive is a tool for research and filter; the fields in the bottom part of the windows are the different filters that can be used to select data that can be viewed, analyzed and printed.

To filter data fill the desired filter field(s) and push "Start Query". An empty filter field selects the entire set of data.

The button "unknown systems" shows the list of the calls that have not been correctly identified.

The button "Systems Silent" search for all the systems that have never called since a certain number of days; pushing this button allows to set the number of days for the search.




The print option allows to print on paper or to save to disk

the information in TXT or HTML format; the two icons in the top left side will allow to print or save to disk.



The screenshot shows a window titled "Estratto Eventi" with a zoom level of 100%. The window contains a table with the following data:

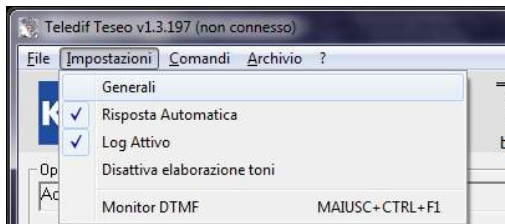
Numero	Data	Nome	Num.	Evento
932	18/05/2005			
931	18/05/2005			
930	18/05/2005			
929	18/05/2005			
928	18/05/2005	Condominio Via Roma	00	Fine Allarme

The option  delete all data filtered and displayed. This action cannot be recovered and all the information are definitively erased and removed from the system; be careful to use it.

A confirmation is always requested before deleting.

TESEO CONFIGURATION

SETUP MENU



General

Access Teseo settings

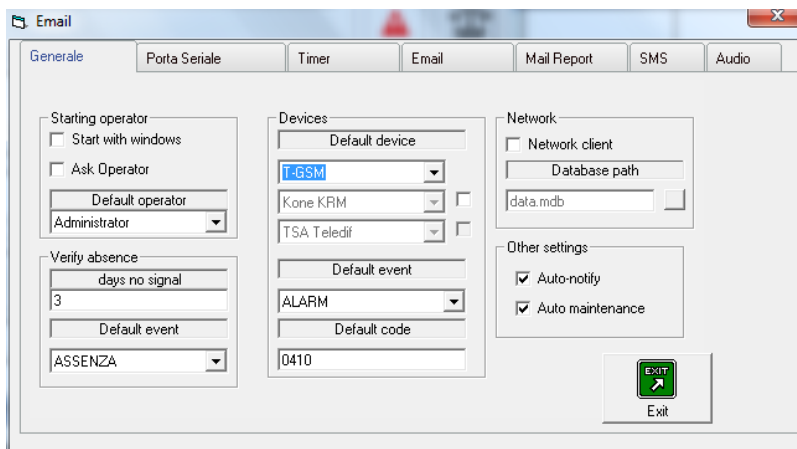
Auto Answer

When active the Auto Answer option enable the automatic answer to any incoming call. If disabled the system doesn't ansie automatically.

Log enabled

This option allows the system to save each operation in a daily text log file named "*ddmmyyyy.LOG*". The file is saved in the folder LOGS contained in the installation folder of the program.

GENERAL SETUP



Start with windows

The application is automatically started at windows startup. If there is an error at the automatic startup it is recommended to disable this option and manually copy the link to Teseo in the Automatic Start folder in windows.

Default Operator

If Login is checked the system requires a valid login at the startup.

If Login is not checked the application will be opened with the default operator.

Remote Alarm Data

Default device– When a call without recognizing the telephone number is received, Teseo sends the ID request relevant to the first device in the list; if it does not get an acknowledgement, it moves to the second device and then to the third one. This procedure is repeated three times before going time out.

It is important to properly define the default device for Teseo in order to be able to communicate with the device if the calling system ID is not recognized. In case of different type of devices, pay attention to the fact that the requested loop will not generate false answers by the calling party.

Default Event - It is the event generated if the alarm code is not received or not recognized, while the calling system has been recognized.

Default Code - It is the code simulated by the device and written in the event database (this code is taken from the event table and used to generate an action).

Verify absence

Days no signal - insert the number of days to test the remote system if there are no alarms.

Default Event- The event generated by Teseo as a result of the test above.

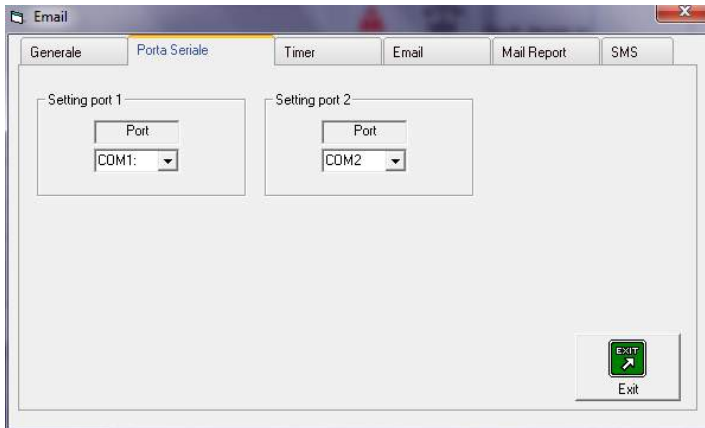
Other settings

Auto notify - if setted, Teseo marks as notified the alarm event automatically, when the operator press the Talk button.

Auto maintenance - if setted, the system restarts and compress the database at 3 am.



SERIAL PORT CONFIGURATION

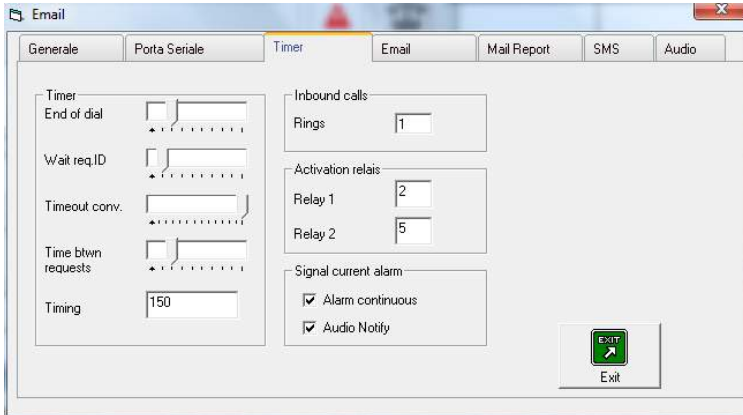


The serial port must be properly configured for correct operations of the system.

Select the COM port connected to Philo.

- Port 1 for managed calls
- Port 2 for CLI calls without an answer. The calls received on this port are not answered and are notified as self test if the number is recognized.

TIMER



End of dial:

The time after the last DTMF tone. Used to define when a remote device has ended DTMF transmission. Suggested value 2 to 4 seconds.

Wait ID request:

Wait time from call answer to ID request. Suggested 1 or 2 seconds.

Conversation TimeOut:

Maximum time for a voice communication. Starting from the ID request; it can be renewed with a command.

Time between two requests:

Time between two ID requests (set in general setup)

Timing

A parameter for serial communications, adjust it around value 70-100 and move only if not received.

Incoming Calls

Number of Rings:

Number of rings before answering to an incoming call.

Relay Activation

Relay1: Relay2:

Philo device is equipped with 2 relays that can be activated based on events. The time the relays are activated can be set in seconds in this mask.

Relay 1 is enabled automatically during a voice communication in order to use an headset or a telephone in parallel to the line.

Active Alarm Report

Continuos signalling:

When checked the warning sound relevant to an active alarm will stop with a manual action instead that automatically.



EMAIL

The screenshot shows a software window titled "Email" with several tabs: "Generale", "Porta Seriale", "Timer", "Email" (selected), "Mail Report", and "SMS". The "Email" tab is active, displaying configuration fields for an outgoing SMTP server. These include a text box for the "SMTP server" address, a checkbox for "Authentication request", text boxes for "Sender Name" and "Email", and text boxes for "Username" and "Password". There is also a large text area for "Starting mail body" and an "EXIT" button in the bottom right corner.

Set here the connection data for the outgoing SMTP server, normally use the server of the ISP providing the connectivity.

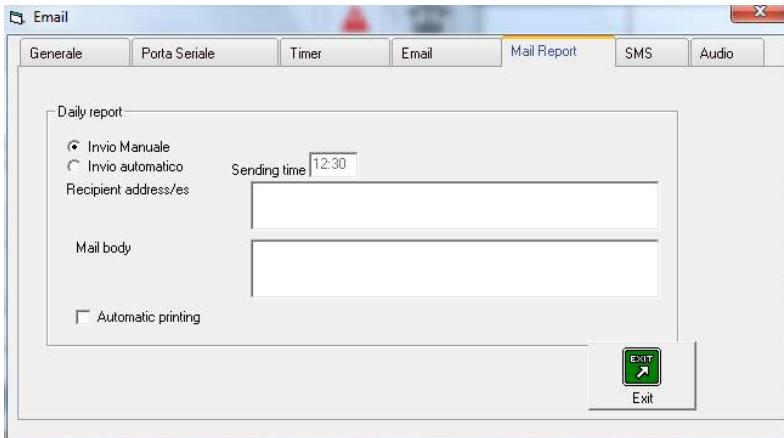
SMTP Server - address of the mail server, i.e. out.alice.it

User - Name and mail address of the sender

Authetication required - if the server requires the authentication, check this box and insert username and password.

Initial text - The first part of the mail that will be generated

MAIL REPORT

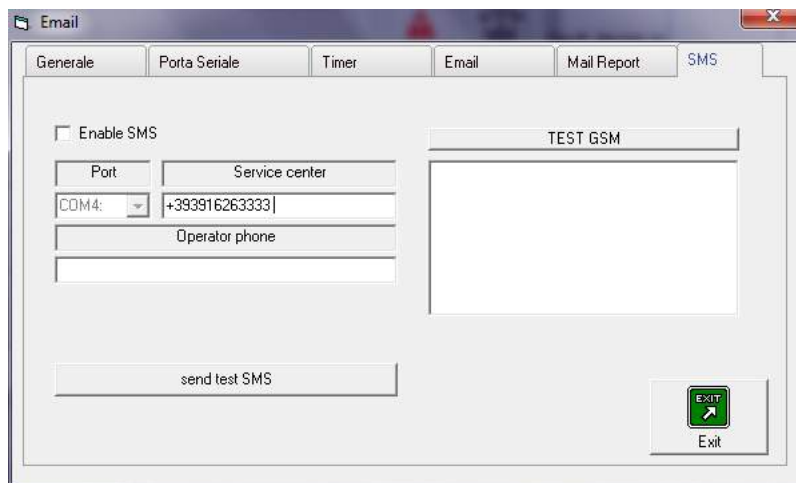


Teseo can be configured to send a daily email report of the events.

Set *Automatic send*, and at the *sending time* a mail containing all the details of the events will be generated and sent to the mail addresses in the list.

Automatic printing - print automatically on the default printer the report with all the events received the day before.

SMS



It is always possible to associate the transmission of a SMS notification to an event. The SMS messages are sent to the operator number or, if set, to the mobile telephone number set in the Table "plants".

In order to enable SMS transmission it is necessary to install a GSM modem on a serial port .

The system has been tested with the USB key HUWAEI E156G and with GSM phone NOKIA E71 connected via USB cable.

Once installed the modem close any proprietary connection program, enable SMS with the flag, identify the COM port on which the modem is installed and run a test by puching the send test SMS bar. If nothing happens and multiple port are installed, select a new one and retry.

Enable SMS

- This flag enables SMS transmission

Port

- COM port on which it is installed the modem

Service Center

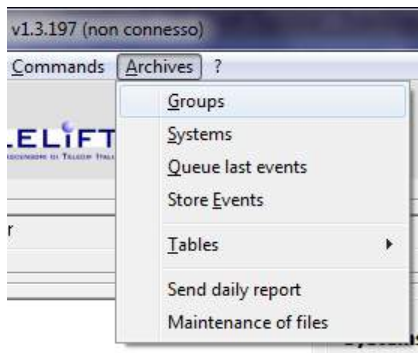
- Service center of the TELCO operator. If empty is set to the telephone number

Operator Tel number

- Set the telephone number of the telephone which sending the SMS notifications



MENU ARCHIVE



ARCHIVE SYSTEMS

Archive systems

ID Number	System name	Telephone number	Search
11153569	Asc. L25 Edif. Enord	1025	Search
Address	Outgoing number	Number	Name
	1025	11153569	Asc. L25 Edif. Enord
City	P.Code	Region	# syst.
			1
Group	Technical reference	Address	
Telephone	Mobile	e-mail	
Type of device	<input checked="" type="checkbox"/> Not answer on CLI		
Kone KRM	<input checked="" type="checkbox"/> Active state		
Shell command			
Notes			

New	Edit	Save	Delete	Back	Forward
Export	History	Exit	Print		

11153570	Asc. L26 Edif. Enord
11153572	Asc. L29 Edif. Fnord
11153597	Asc. L30 Edif. Fnord
11153598	Asc. L27 Edif. E sud
11153599	Asc. L28 Edif. E sud
11153600	Asc. L31 Edif. F sud
11153601	Asc. L32 Edif. F sud
11153622	Asc. L33 Edif. D
11153623	Asc. L13 Edif. A1
11153624	Asc. L16 Edif. A3
11153625	Asc. L17 Edif. B1
11153633	Asc. L20 Edif. B3
11153634	Asc. L21 Edif. C1
11153635	Asc. L24 Edif. C3
11153641	Asc. L35 Edif. C
11153642	Asc. L35 Edif. C
11153645	Asc. L38 Edif. M
11153665	Asc. L1 Edif. A2
11153666	Asc. L2 Edif. A2
11153667	Asc. L3 Edif. A2
11153683	Asc. L4 Edif. A2
11153684	Asc. L5 Edif. B2
11153685	Asc. L6 Edif. B2
11153720	Asc. L7 Edif. B2
11153721	Asc. L8 Edif. B2
11153722	Asc. L9 Edif. C2
11153723	Asc. L10 Edif. C2
11153724	Asc. L12 Edif. C2
11153725	Asc. L11 Edif. C2
11153736	Asc. L15 Edif. A3
11153737	Asc. L18 Edif. B1
11153738	Asc. L23 Edif. C3
11153749	Asc. L14 Edif. A1

This section builds the database of the plants, which would be given and associated to the alarm calls.

Peripheral master data

System ID is the identification number that Teseo is supposed to receive from the peripheral.

Telephone number is the telephone number of the peripheral (needed for CLI operations)

System name, address, city, CAP, Prov are relevant to the location of the plant.

The light blue field are relevant to the data of the service/maintainer to inform in case of alarm, i.e.

Contact Service Company: it is a statistical field in which select a company created in the company table.

Contact service person, City, telephone number.: insert the relevant information for the person to contact for this system.

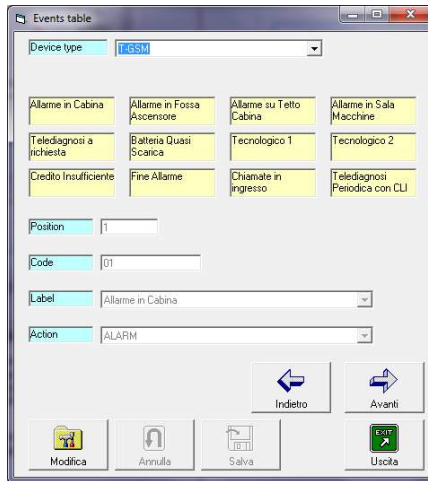
Remote alarm type: Select the device installed in this system (the devices are created in the device table)

Remote diagnostics with CLI unanswered: if this box is ticked, at the recognition of the calling number Teseo does not respond, but a call is stored as remote diagnostic from the system.

Status system active: system active or inactive. If a system has been deactivated, it is always processed but noted as inactive. An inactive system is not researched between the systems that do not communicate.

Note: in order to have a good recognition of the calling codes it is necessary to properly set the type of remote alarms.

TABLE EVENTS



The table Events together with the table Actions defines the reaction of the program to the recognition of a specific event or status code.

Up to 12 events can be defined per each type of device.

First of all select the device on the top.

Then select with the mouse a window to change and push modify.

Code – the sequence of DTMF tones sent by the peripheral device to communicate the type of alarm.

Label – the description of the type of alarm

Action - the action taken from the application when the event occurs.

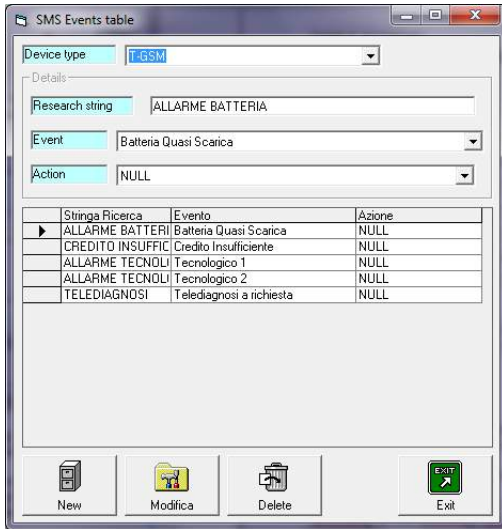
An event can be generated with the default code defined in general setup in order to generate a default event customized for the type of device.

Note: in the code insert the text:

- CLI for the remote diagnostic calls using CLI (no answer)
- CALL for the outgoing calls



TABLE EVENTS SMS



This table defines the alarms received via SMS.

Type of device: the type of device for which the alarms are defined

Search string: Unique string contained in the SMS which identify the type of alarm

Event: the event referred by the string

Action: the action to be started as a consequence of this event.

Received SMS identify the system and the device based on the calling number. The string received is analyzed in order to extract the type of event that generated the SMS.

TABLE ACTIONS

Record number: 1 di 55

Action Code: ALARM

0 - Imp.Linea: Impegna (NO)

1 - Flash: NO

2 - Dial: NO

3 - Handset: NO

4 - Phone: NO

5 - Hang Up: NO

6 - Ringer: NO

7 - Controls: NO

8 - Relay 1: NO

9 - Relay 2: NO

10 - No: NO

11 - E-mail: NO

12 - SMS: NO

Numero GSM per SMS: []

13 - Play Audio: NO

Audio File: []

14 - Message: SI

15 - Action: SI

Normal Action: ALL_NORMAL

NO Operator action: ALL_ASSENZA

16 - shell: SI

Notes: []

Codice Azione: ALARM

ALL_ASSENZA

ALL_NDRMAL

ASSENZA

CABCHIUDI

CABTALK

CUFFIA

disconnected

FINE

FINEALARM

FLEX_ALARM

FLEX_APRI

FLEX_DISC

FLEXCHIUDI

FLEXEXTEND

FLEXFINE

FLEX_TALK

Helpy_E_OK

HelpyA_ALARM

HelpyA_KO

HelpyChiudi

HelpyE_ALARM

HelpyTalk

K_ALACK

K_DISCONNECT

K_EXTTIMER

K_REALCODE

K_REGID

K_RESET

K_V_END

K_V_ESTEND

K_V_RISP

KO

MLIFT_Alarm

MLIFT_call

Buttons: New, Edit, Save, Delete, Back, Forward, Exit

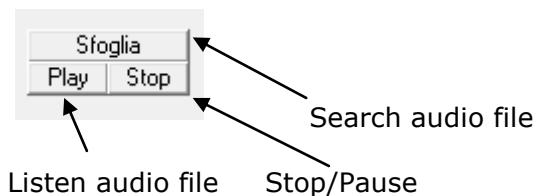
This window is used to define the actions that will be performed as a consequence of an event.

The Action code is the name recalled in the table Events.

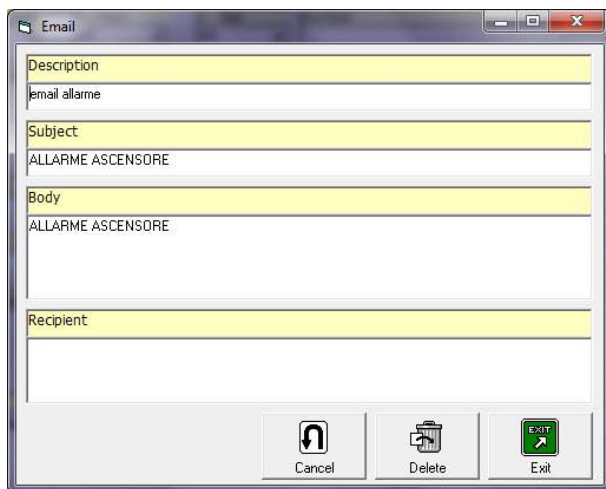
The commands associated to each action are executed according to the sequence number shown in the table.

0—Line Engage	Engage the line (when used with a telephone in parallel to Philo, to avoid mismatches, during the voice communication Philo is disconnected and reconnected when needed to send DTMF)
1- Flash	Send a 100ms flash to the line (to put on hold or start a call transfer to a PBX)
2 - Number selection	Start dialing the number set in DTMF mode (use P to insert one or more pause in the selection)
3 - Headset	Enable audio on headset (exclude mute)
4 - Telephone	Start the telephone program and open a numeric keyboard window
5 - Hang UP	End the voice communication
6 - Bell	Pop up a visual warning on the screen and a sound to alert the operator
7 - Commands	Start the command window to process the active call
8 - Relay 1	Activate relay 1. The relay is automatically deactivated at the end of the communication
9 - Relay 2	Activate relay 2. The relay must be manually deactivated from the command menu
10 - Hold	Start manual mode and disable the end of call timer. If the option "Hold" is active the call must be disconnected manually
11—Email	Enable sending the mail defined by the button EMAIL described in the next paragraph
12—SMS	Enable sending an SMS when receive the event. If the GSM number is not defined the message is sent to the number of the operator defined in the general setup
13—Play Audio	Play the audio file to the line (if the audio output of the PC is connected with Philo)
14—Message	Pop up to the operator the message described in the notes of the Action, in order to give instructions
15—Action	Performs an action following to the current action (i.e. sending more SMS to different numbers can be done with one action sending one SMS). The action is executed based on the status Operator Normal or Absent, in the main window.
16—Shell	Run an external program configured in system table

AUDIO MESSAGE



EMAIL DEFINITION



This window defines the email that is generated according to the type of action.

Description: descriptive title of the mail

Subject: subject of the mail

Content: Content that is added to the body of the mail. A first part of content (equal for all the mails) is added as defined in general setup. All the mails are completed with the current event and the system identification information.

Recipient: email address of the recipient. Multiple mail addresses must be separated by semicolon.

The e-mails are sent to:

Teseo



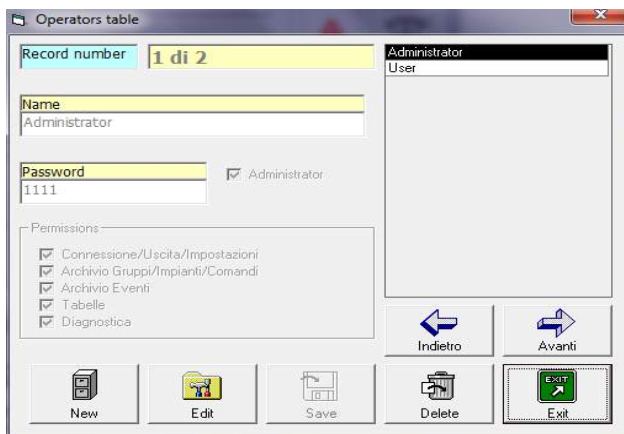
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1. Operator address in general setup (all the emails)
2. Address/addresses in the action (all the emails relevant to that action)
3. Address in System group (all emails relevant to grouped systems)
4. System address (all emails relevant to a single system)

TABLE OPERATORS



The table Operators allows to define the users of the program. In this table the password is associated to the operator.

If the Admin Flag is checked the operator can do changes to the archives and to the tables of the application.

The access to the table Operators and to all the tables is only possible with the Administrator privileges.

The privileges can be set differently for each operator by setting the proper flags:

Connection/Exit/Settings: when flagged the user can access menu connections, settings and exit the program.

Archive Group/Systems/Commands: when flagged the user can define and set the systems

Archive Events: when flagged the user can display and search events.

Tables: when flagged the user can set the tables

Diagnostic: when flagged, it enables the user to advanced diagnostic tools (move the cursor on the Diagnostic box and press CTRL+Maiusc+M)



TABLE DEVICES

The screenshot shows a software window titled "Devices table" with a record number of 1 di 12. The device name is "TSA Teledif". The interface includes fields for "ID request code", "ID position", "ID length", "Max length", "Status request code", "Status position", and "Status length". There are also sections for "Control action" (Talk, Close, End of alarm) and "Other" (Default event code, CLI event code). A list of protocols is visible on the right side of the window.

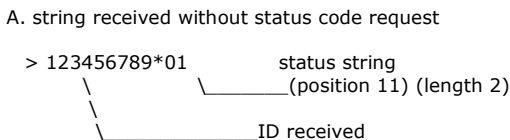
This table allows to create, display and modify the devices.

The table device defines the functionality of the different remote alarms used and managed by Teseo.

The type of remote alarm supported is defined in the System archive by recognizing the string received or the calling number (not in Philo version 1).

When verified the type of calling device the application searches the state of the event in the received string or by sending a request code to the remote device.

Example of a standard DTMF protocol:



- B. string received with status code request
 - > 123456789 ID received
 - < 5status request code sent
 - > 01alarm event received (01 = cabin alarm)

FIELD DESCRIPTION:

PERIPHERAL NAME: the name that identifies the peripheral

REQUEST ID CODE: the code that the peripheral is waiting to send, the sequence ID and STATUS

POSITION ID: Position in the string of the ID. IF 1 it starts searching in the first character.

LENGTH ID: Length of the ID, if "0" the entire string is considered

MMAX LENGTH STRING: maximum quantity of characters to consider, terminated the selection in case of strings too close. End of selection requires 1-2 seconds of mute.

REQUEST STATUS: if setted, once identified the system and received the ID, Teseo requests the status by sending a request status command. (device Teledif TSA)

POSITION STATUS: if the status is sent in the same sequence of the ID, insert in this field the starting position. (i.e. in the string 123456789*01 the status starts from position 11)

LENGTH STATUS: number of characters of the status field

STATUS REQUEST CODE: DTMF string of one or more characters for status request (if status request is active)

ACTIONS

The actions TALK, CLOSE, AUX are started from the

Teseo



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command buttons during a voice call. This allows to use the same methodology with different devices.

The bottom key takes the description from the Note of the action and can be used as a macro.



The Actions TALK, EXTEND, HANG UP CALL OUT are relevant to the function OUT CALL and must contain the actions relevant to the functions for the different devices.

DEFAULT EVENT CODE

It is a code that is simulated by the application if the system is recognized but the event is not recognized.

This code overlap the generic code defined in the general setup.

CLI EVENT CODE

This code is the code simulated by the application when recognize the Phone Calling Number.

The code overlap the generic code for test call by CLI.

AUX ACTION ON ANSWER

If setted the system put the AUX ACTION CODE on the button TALK. This to make a different action on the first pressing of button TALK

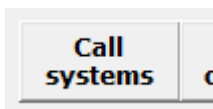
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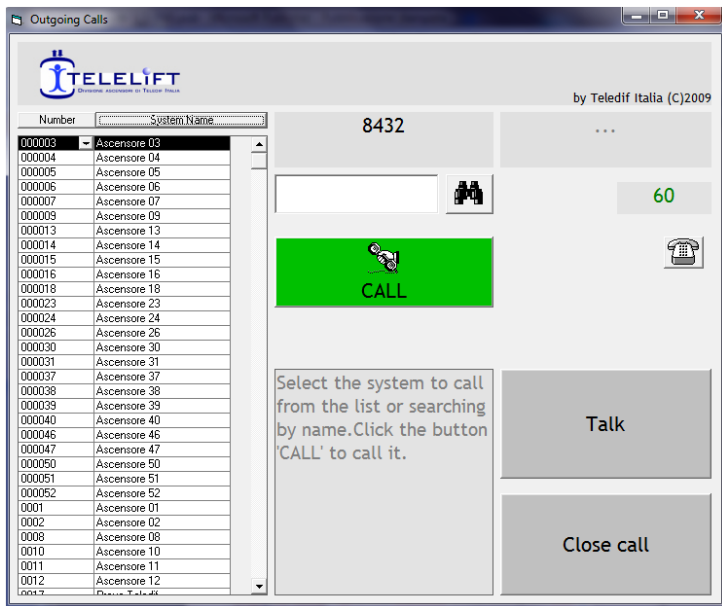
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CALL OUT SYSTEMS



The key in the main window opens the window to call the remote devices:



Select the device from the list; if the device is associated to a telephone number this is highlighted and the button CALL becomes GREEN.

A system can be searched by entering the initial part of the name, by using * as a wild character and pressing the find button.

When started the call wait on line with the headset or the telephone handset and push TALK only after the answer of the remote device and the remote message or tone.

A timeout is running during the conversation; to reset it to the initial value use the button EXTEND.

Always close the call with the button HANG UP.

The actions performed with the buttons Talk, Extend and Hang up are defined in the section callout of the Table Devices and must be defined and verified for each device installed.

After one minute of inactivity or when receiving an incoming call the windows Call System close automatically and returns to the standard Teseo display.





APPENDIX “A”

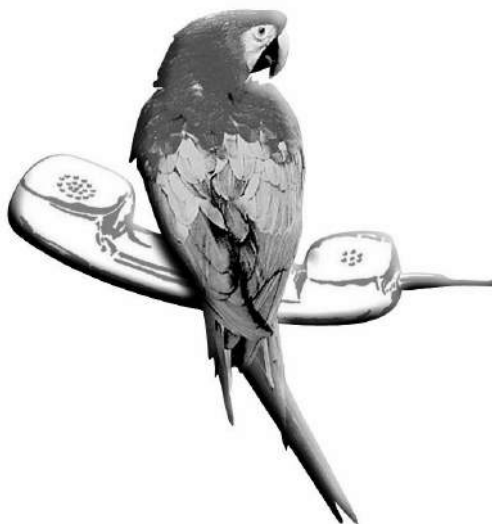
A. List of Commands PHILO

Output Commands

>	R	1	1	Relay 1 ON
>	R	1	0	Relay 1 Off
>	R	2	1	Relay 2 On
>	R	2	0	relay 2 Off
>	F	L	H	Flash
>	O	N	H	Connect line
>	O	F	H	Disconnect line
>	M	F	T	DTMF Tone
>	L	G	0	Green Led ON
>	L	G	1	Green Led OFF
>	H	S	K	Handshake Ademco
>	K	O	F	Kiss Off Ademco
>	M	U	1	Mute ON
>	M	U	0	Mute Off
>	C	P	1	Call Progress On
>	C	P	0	Call Progress Off
>	R	D	Y	Ready
>	S	T	N	Store Number
>	C	A	N	Call Number

Input Functions

<	C	I	T	Call Headset
<	R	N	G	Call Telephone
<	M	F	T	Receive DTMF tone



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