



User's Guide

TCP/IP Access

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Dolphin Systems
Samstagernstr. 45
CH-8832 Wollerau



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1 Introduction

With eCall's TCP/IP access, you can send messages to various call systems using the TCP/IP protocol.

2 Requirements for the Use of TCP/IP Access

The following requirements are necessary in order to send messages using TCP/IP:

- You must have a Business account with eCall.
- Access via TCP/IP must be set up in your Business account.
- Your software must be able to send messages using a TCP/IP connection.

3 Protocol

The processing of a transmission order to eCall requires up to four stages.

1. The client sends the transmission order to eCall.
2. eCall sends a result message to the client.
3. eCall sends notification to the client, if requested.
4. eCall sends a mobile phone recipient's return reply, if requested.

4 Message Formats

4.1 General Information

All messages consist of a command word and a parameter list. The specific elements of a message are separated from each other by tabs. Parameter ID and Value are separated by a colon. The order is completed with CR LF . The Parameter IDs are *case insensitive*, i.e. it does not matter if you use upper or lower case letters.

General Format:

<Command><TAB><Parameter ID 1>:<Parameter Value 1><TAB><Parameter ID 2>:<Parameter Value 2>...<CR><LF>



4.2 Transmission Order for Text Messages

Command

SendPage Command for a Text Message

Must Parameter

Address Complete pager or mobile phone number (e.g. "*Address:0791112233*") or a list of numbers divided by a semicolon ; or a name of a person or a group specified in the address book of the ecall account

Message Text to be displayed on the pager/mobile phone. CrLfs must be replaced with the <CR> und <LF> characters. (e.g. "*Message:Hello World*")

Optional Parameter

JobID Definite Identification of the message (e.g. "*JobID:123AB*")

AccountName Name of the eCall Business account (e.g. "*AccountName:MyAccount*")

AccountPassword Password for the eCall Business account (e.g. "*AccountPassword:MyPassword*")

Expanded Functions

CallBack Callback number only applicable for mobile phones, up to 16 numerical or up to 11 alphanumerical characters possible. (e.g. "*CallBack:0791234567*")
You cannot use a business number as a callback number!
Note: If the "Answer" parameter is transmitted, then the "Callback" value is ignored.

Notification Receiving address for notification, as soon as the mobile phone recipient has received the message (mobile phone or pager number, e-mail or IP address, " " in the logbook) (e.g. "*Notification:192.168.0.56 /15300*")
Note: If the "AlwaysNotification" parameter is transmitted, the "notification" parameter is not needed. Notification format is described in section 4.6.
Attention: Validity area of notification ports up to 32767.

AlwaysNotification Receiving address for notification, as soon as something has changed in the notification status (pager or mobile phone). (e.g. "*AlwaysNotification:name@domain.ch*")
Note: Notification format is described in section 4.6.
Attention: Validity area of notification ports up to 32767.

Answer Answer function with eCall (mobile phone or pager number, e-mail or IP address, " " in the logbook) only applicable for mobile phones, callback number cannot function in this case. (e.g. "*Answer:name@domain.ch*")
Note: Format for an Answer Message described in section 4.7

SendDate Determines the sending time of the order, in the case of delayed sending. (e.g. "*SendDate:2004-12-20 20:31:50*")

MsgType Delivery option for a specific type of message. Defined types are:
- Flash -> Flash-SMS (e.g. "*MsgType:Flash*")

NoLog With this parameter delivery, the message will not be written in the logbook . (e.g. "*NoLog*")

Example

SendPage<TAB>Address:0791112233<TAB>Message:Hello World<TAB>AccountName:xxx<TAB>AccountPassword:yyy

Note

The contents of notification or a reply to a mobile phone, pager, or an e-mail address are restricted to the status of notification or the reply of the recipient. An exception is the JobID, if this parameter was used, in which case it will be inserted at the end of an e-mail text.



4.3 Transmission Order for Fax Messages

<u>Command</u>	
SendFax	Command for a fax message
<u>Must Parameter</u>	
Address	Complete fax number including the country code or a list of numbers divided by a semicolon ; or a name of a person or a group specified in the address book of the ecall account
Message	Fax message text, cannot contain any tabs. CrLfs must be replaced with the <CR> and <LF> characters.
<u>Optional Parameter</u>	
JobID	Definite message identification
AccountName	Name of the eCall Business account
AccountPassword	Password for the eCall Business account
<u>Expanded Functions</u>	
FromText	Identification text and/or sender number
Subject	Message title
SendDate	Determines the sending time of the order, in the case of delayed sending. Format: yyyy-mm-dd hh:mm:ss

Example

SendFax<TAB>Address:017873071<TAB>Subject:Hello World!<TAB>Message:Test Message<CR><LF>

4.4 Transmission Order for Voice Messages

<u>Command</u>	
SendVoice	Command for a voice message
<u>Must Parameter</u>	
Address	Complete number including country code
Message	Fax message text, cannot contain any tabs. CrLfs must be replaced with the <CR> und <LF> characters.
<u>Optional Parameter</u>	
JobID	Definite message identification
AccountName	Name of the eCall Business account
AccountPassword	Password for the eCall Business account
<u>Expanded Functions</u>	
MsgLanguage	Determines the language in which the text is read out. The language parameters are as follows: German=DE, French=FR, Italian=IT, English=EN Default: Language is automatically recognized.
FromText	Contains the client's name, which is read out before the message.
SendDate	Determines the sending time of the order, in the case of delayed sending Format: yyyy-mm-dd hh:mm:ss

Example

SendVoice<TAB>Address:017873070<TAB>FromText:Sample John<TAB>Message:Test Message<CR><LF>



4.5 Result Message

<u>Command</u>	
ResultPage	Command for a result message
<u>Must Parameter</u>	
ResultCode	Result code (according to paragraph error codes)
ResultText	Result in cleartext (according to paragraph error codes)
<u>Optional Parameter</u>	
JobID	Definite message identification, if it was included in the transmission order

Example

ResultPage<TAB>ResultCode:0<TAB>ResultText:Page Accept<CR><LF>

Please note that the result message only shows that the transmission order was accepted by eCall. It does not say whether or not the order was successfully transmitted to the appropriate call center or to the recipient.

4.6 Notification Message

<u>Command</u>	
Notification	Command for a notification message
<u>Must Parameter</u>	
NotificationCode	Message status code (according to Notification Table)
NotificationText	Status in cleartext (according to Notification Table)
Number	Contains the notification recipient's number
TimeStamp	Contains the time of receipt of a sent message (dd.mm.yyyy hh:mm:ss)
<u>Read Confirmation</u>	
OK<ETX>	In order for us to note the confirmation of receipt as forwarded, you have to reply to the message receipt with OK<ETX>. The connection to us will then be terminated .
<u>Optional Parameter</u>	
JobID	Contains the definite message identification, if it was included in the transmission order.

Example

Notification<TAB> NotificationCode:0<TAB> NotificationText:Message has been delivered
<TAB>TimeStamp:18.09.2000 12:15:45<CR><LF>

Notification Table

NotificationCode	NotificationText	Description
0	Message has been delivered	The recipient confirmed the receipt of the forwarded message.
1	Message has been buffered	Receipt of the forwarded message could not be confirmed yet.
2	Message has not been delivered	Receipt of the forwarded message could not be confirmed.
3	Error Code / Error Message	Determines the error at transmission to the appropriate center.
4	Transmission OK	The transmission order was forwarded to the appropriate center.



5 Error Codes

ErrorCode	ErrorText	Description
11000	SyntaxError	SyntaxError
11001	PermissionDenied	Access is denied
11100	AdrAdCInvalid	Invalid or incorrect recipient's address
11101	AdrNAdInvalid	Invalid or incorrect confirmation address
11102	AdrAdCMissing	Recipient address missing
11103	AdrNAdMissing	Notification address missing
11104	AdrAdCTooMany	Too many recipient addresses transmitted
11105	AdrAdCNotAllowed	Recipient address is not within defined area
11200	MsgNoCharacters	No message existent
11201	MsgInvalidCharacters	Invalid characters in the message
11202	MsgSendTimeInvalid	Invalid sending time given
11203	MsgSendTimeNotAllowed	Sending time is not within time slot
11300	AccNoUser	Unknown user
11301	AccNoUnits	Not enough credits in account
11303	AccNoFreeUnits	Not enough free credits in account
11400	CallSystemInvalid	Invalid call system
11401	CallSystemInvalidForUser	Invalid call system for this user
11402	CallSystemNotSupported	Call system is not supported
11403	CallSystemConfused	Call system is temporarily out of order
11500	IDMissing	ID is missing
11501	IDInvalid	ID could not be found
11502	IDDoesNotExist	ID does not exist in the system
11600	StateAlreadyTransmitted	Message already transmitted
11700	DataReadError	Data contents could not be read
11800	CBMsgError	Callback contains a forbidden number or text

6 Connection Establishment / Termination

Ecall's TCP/IP access is presently configured as follows.

Primary Access

IP-Address: tcpipint1.ecall.ch
Port: 2711

Secondary Access

IP-Address : tcpipint2.ecall.ch
Port : 2711

In either case, the connection will be closed again 60 seconds after connection establishment.



7 Identification

Ecall only accepts orders if the sender can be identified. The following criteria can selectively be used in order to identify the sender:

- IP address of sender
- IP address and IP port of sender
- Account name and password

These criteria can, as a matter of course, also be combined. Please contact us for further identification possibilities.

8 Access Test

You can use TELNET, for example, in order to conduct a simple access test. Please note the requirements for access use. In addition, you need to know if the account name and the account password are necessary for identification.

A) Open a text editor (e.g. Notepad) and write an order (Tabs between the parameters, end with Return), e.g.:

```
SendPage      Address:0740342686      Message:Test via eCall      AccountName:CompanyXY
      AccountPassword:123456
```

B) Mark the text, including the blank line that follows.

C) Choose "Copy" in the menu.

D) Start-up Telnet (with START -> Run -> telnet). **Careful:** Windows 2000 Telnet does not function faultlessly. You can find a fully functioning version of Telnet at www.ecall.ch, see "help"-> access via TCP/IP.

E) Choose "Connect" – Remote System in the Telnet menu.

F) Specify the hostname: tcpipint1.ecall.ch and port: 2711-> Connect.

G) Choose "Edit" -> "Paste" in the menu.

You should now receive a result message from eCall.