

# ISDN PBX-System

User Guide

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AC 14

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AC 14 WebPhonie

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AC 16 WebPhonie

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**AGFEO**  
einfach | perfekt | kommunizieren

# Introduction

## Get Started

Connect the plug at the end of the power supply into the socket labelled "Power" until you hear it click.

Connect one end of the ISDN connection cable into the socket labelled SO until you hear it click in place.

Connect the other end of the cable to the NTP of the network provider or the installed socket. Connect the TAE Adaptors to the telephone system.

Connect the plugs of your telephone equipment to the TAE adaptors.

The default setting of the AC16 WebPhonie is that the first connection is extension 11 and the second connection is extension 12.

Plug the power supply into the 230V main socket. The green LED will light up.

Enter the MSN numbers (see below).

You now can make calls. After lifting the telephone receiver you will hear the dial tone of the telephone exchange.

An incoming call received on one of your MSN numbers will ring extension 11 and 12.

## Enter MSN numbers quickly










MSN numbers on which you can be called can be programmed quickly and easily. With this function you can enter the MSN and at the same time allocate each MSN to the connected telephone apparatus.

Example: For the first socket (Phone) you enter the telephone number (345678). For the second socket (Fax) you enter the phone number (345677). Therefore, callers ringing 345678 will call your phone and callers ringing 345677 will call your fax machine.

For further information see "Programming Instruction".

Start programming mode:  \*      (if required enter PIN, not activated in default)  

	    		 		
lift receiver	<b>MSN</b> quick programming	<b>MSN-</b> Index	Enter Multi Subscriber Number (MSN)	Confirmation tone	replace receiver

Stop programming mode:  \*          
**END**

# Introduction

## Table of Contents

### Introduction

Safety Notes .....	E - 4
Important notes on using analogue equipment .....	E - 5
Pictograms and Buttons .....	E - 6
The LEDs .....	E - 6

### Installation

Connections of the AC 14 .....	I - 2
Connections of the AC 14 WebPhonie .....	I - 3
Connections of the AC 16 WebPhonie .....	I - 3
Connect Analogue Extensions .....	I - 4
Wallmounting .....	I - 6

### User Guide

Making a Call .....	U - 1
Accepting Incoming Calls .....	U - 3
Call Waiting Deny .....	U - 4
Call Back when free .....	U - 4
Call Transfer .....	U - 5
Auto Dialling (Hotline) .....	U - 7
Busy on Busy .....	U - 8
Conference .....	U - 10
Least Cost Routing (LCR) .....	U - 11
Parking a Call .....	U - 12
Switching between Day and Night Service .....	U - 12
Enquiry .....	U - 14
Automatic Call Back .....	U - 15
Do Not Disturb .....	U - 15
Telephone lock - direct call (baby call) .....	U - 16
Timer .....	U - 19
Sending CLIP or COLP .....	U - 19
CLIP - display caller's phone number .....	U - 20
Diversion to - diverting calls to another phone .....	U - 21
Call Charges .....	U - 24

### Programming

Programming via PC .....	P - 1
Remote setting - Remote configuration .....	P - 2
Programming with a telephone .....	P - 3
Adjusting the flash time .....	P - 14

### Communication via PC

Software Overview .....	PC - 1
Driver Installation .....	PC - 6

### Glossary

Glossary .....	A - 1
What to do in the event of malfunctions .....	A - 4
Tones .....	A - 8
Technical Data .....	A - 9

### Index

Index .....	S - 1
Declaration of Conformity .....	S - 4

# Introduction

## Safety Notes

The telephone system is intended for connection to an ISDN basic rate access (DSS 1). You may also connect any type of analogue telephone to the system which has been approved for connection to the Public Switched Telephone Network (PSTN).

The telephone system has a general connection permit (Germany: AAE).

The telephone system conforms to the prescribed conformity and safety regulations.

- Installation and Maintenance of the System only by trained personnel.
- Important! To prevent personal injury and damage to equipment please ensure that the system is properly earthed and that the appropriate cable is connected in the mains plug.
- The System must be installed horizontal so that the connection panel is on the right hand side.
- Do not connect or disconnect any PSTN lines during a thunderstorm.
- Install lines and extensions in such a way that no one walks or trips over them.
- Disconnect the System from the mains supply before opening the connection panel.
- Before connection of lines and extensions please ensure that the system is unplugged from the mains supply. DANGER!
- Preventive measure! Before carrying out any installation work, please touch briefly the PC/Printer socket of the telephone system. This will discharge any possible electrostatic charges, thus protecting the telephone system's electrostatically sensitive components.
- Do not allow liquids to enter the system as short-circuits may occur.
- No liability will be accepted for consequential damages such as an unintentional continued connection of a line.
- The telephone system will not operate in case of power failure and you will not be able to make any type of call.

# Introduction

## Important notes on using analogue equipment

Only analogue Apparatus which are approved to be connected to the Public Switched Telephone Network (PSTN) may be connected to the analogue side of the system. This includes all 2 wire telephones, answering -, fax machines, and modems.

The system supports both dialling method Loop Disconnect (LD) or Dual Tone Multi Frequency (DTMF). DTMF is a faster dialling method. The system will dedect the dialling method automatically.

From an analogue phone, you can call any extension free of charge by dialling the internal phone number. You can call an external number after seizing an outside line.(B channel) Do do this dial 9 (0) to get an outside line and then dial the telephone number required.

If you set "spontaneous exchange line seizure with internal " for your telephone extension then you must press the hash button before the internal phone number. Note in this mode you cannot call an extension if your phone is an older LD or rotary type dial phone.

To carry out system functions, your phone must have a STAR Button (\*). The sequence to enter will be \* followed by the function number. If your phone is an older type LD phone then you can dial 99 instead of \*.

To make an enquiry call you phone must have an R Button (Recall Button). The signalling for this must be set to Timed Break Recall (TBR). On older rotary dial phones you do not need to press the R Button when making an enquiry call. System functions such as last number redial, abbreviated dialling etc, can be carried out from any LD phone. Details of such operations are given in this manual and in the short reference guide under Analogue and ISDN Terminals.

You can also use the functions of a standard analogue telephone (e.g. redial, abbreviated dialling) in conjunction with your telephone system. Please refer to the operating instructions for the telephone concerned for details of these functions.

Details of how to operate the functions of your telephone system that you are able to use from a standard analog telephone set to DTMF are given in this instruction manual and in the „short-form operating instructions for analogue and ISDN terminals“.

Each programming entry will be acknowledged by a confirmation tone. If this tone is not received or if an error tone is returned then you must repeat this entry.

The telephone system is forwarding counting pulses to analogue terminals to display connection charges [charge pulses].

For data transfer via the analogue ports, the telephone system supports the V.90 standard (up to 56600 bps, a reduction in speed is possible due to transmission path and cables used, down to 33600 bps V.34+).When operating a modem, it is imperative to configure the modem to blind dialling because most modems do not detect the dial tone of a telephone system.On modems that operate with the Hayes command set, blind dialling is set by means of the X0..X4 parameters.

# Introduction

## Pictograms and Buttons

All operations and functions of the telephone system is explained in clear and easy to follow pictograms.

### Pictograms



Ringer  
(tone ringing)



Conduct a call



Pick up receiver



Replace receiver



Dial Phone or Code  
Number



Conference



Acknowledgement tone



Room monitor

### Buttons



Recall Button



Star Button for  
functions



Number Button for  
entering digits, e.g. „9“



Hash Button to dial  
extension when  
automatic line seizure  
is active

## The LEDs

### Green LED - The Function LED

- lights steadily when the telecommunications system is in operation
- flashes slowly when a diversion to an external subscriber is set up through the telecommunications in the ISDN exchange.
- Flashes rapidly when an entry is available in the telecommunication system's call list (this indication has priority over a diversion)

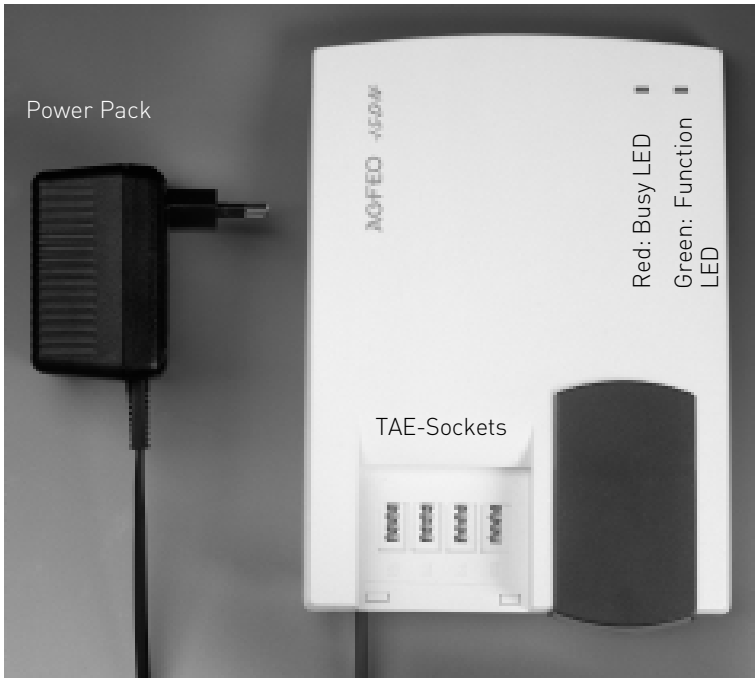
### Red LED - The Busy LED

- flashes slowly when a line (a B-channel) is busy
- lights steadily when both lines (both B-channels) are busy

# Installation

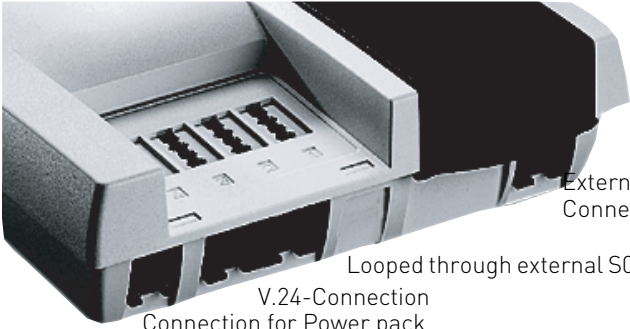
## Check Contents of delivery

- 1 ISDN-PBX System
- 2 plugs and screws
- 1 ISDN-connection cable, length 1,5 m
- 1 PC-USB connection cable, length 3 m (AC 14 Webphonie and AC 16 WebPhonie)
- 4 TAE adaptors
- 1 PC-V.24 connection cable
- 1 230 V-Power Pack
- 2 short manuals
- 1 CD-ROM with TK-Suite



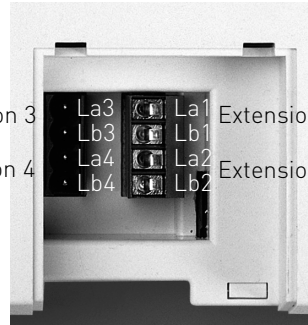
# Installation

## Connections of the AC 14



External S0  
Connection

Looped through external S0  
V.24-Connection  
Connection for Power pack

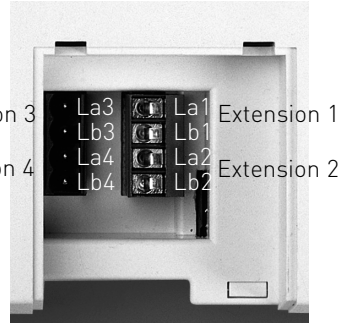
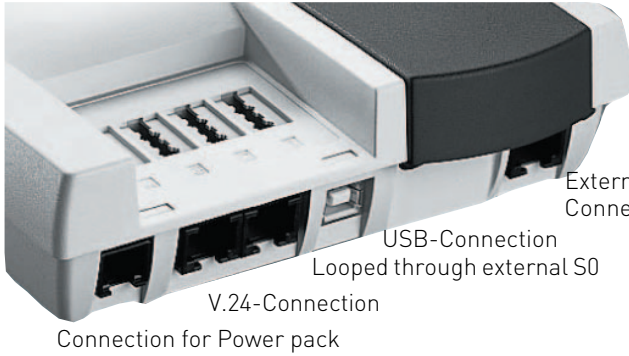


Extension 3    La3    La1    Extension 1  
                  Lb3    Lb1    Extension 2  
Extension 4    La4    La2  
                  Lb4    Lb2

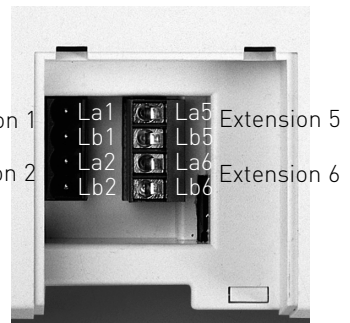
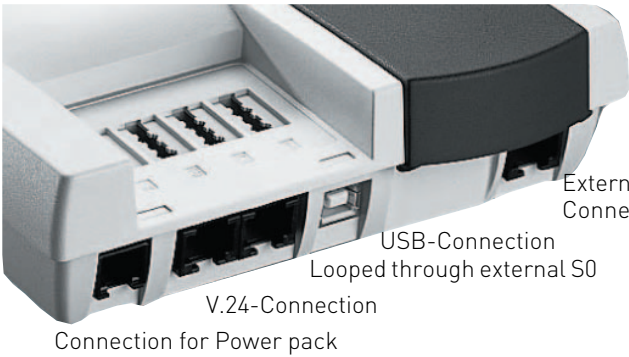


# Installation

## Connections of the AC 14 WebPhonie



## Connections of the AC 16 WebPhonie



# Installation

## Select Location

Install the System in a dry room free of any hazardous materials. Avoid sites near Air Conditioners, Radiators, Equipment with excessive high radiation, direct sunlight, excessive dust and the danger of liquid spillages such as Water or Chemicals.  
Ambient Temperature 5C to 30 C. Max humidity 70% non condensing.  
The distance of the equipment to other objects such be considered to guarantee an air circulation. The minimum clearance distance of 50 cm should be adhered to. The distance of the system to the mains socket and the telephone network socket should not be more than 1 meter. (Length of mains cable 1.20 m)  
It must be made possible to place a Laptop or PC near the telephone system for programming.

## Mains Socket

On power failure the PBX System is without function.  
Use the provided Power Pack only. Modell No.: 1533238

## Connect Analogue Extensions

You may connect up to four analogue apparatus to the system which have been approved for connection to the public switched telephone network.  
a/b-Apparatus is:  
- Telephone (2 wire Phone or POT) either LD or MF Dialling with Timed Break Recall (TBR) (60 – 800 ms)  
- LD Phones may only have limited feature access.  
- Fax machines Group 3  
- Telephone Answering Machines  
- Modem 56k (V.90 to 56600 bps, may reduce to 33600 bps due to quality of lines V.34+)  
Connect the analogue apparatus via 2 wires to the a and b wire (Speech Pair) of the system port

## Notes to the ISDN connection (S0)

The system has been designed for the connection of an ISDN standard access. (Point to Multi Point) On this type of connection you may operate further ISDN apparatus. For example your PC with ISDN Card or a ISDN phone and more. The Point to Multi Point connection could be installed as an ISDN Bus which is connected to the NTTP. Up to 12 sockets may belong to this Bus. In addition to your telephone system you can connect up to seven additional ISDN devices to this ISDN Bus.

## Looped through external S0

You can connect other ISDN devices in parallel to your telephone system on the looped through S0 Bus. This connection is not an internal S0 of the system but a connection to the NTTP of your Network Operator.

# Installation

## Get Started

Connect the plug at the end of the power supply into the socket labelled "Power" until you hear it click.

Connect one end of the ISDN connection cable into the socket labelled SO until you hear it click in place.

Connect the other end of the cable to the NTP of the network provider or the installed socket.

Connect the TAE Adaptors to the telephone system.

Connect the plugs of your telephone equipment to the TAE adaptors.

The default setting of the AC 14 / AC 14 WebPhonie / AC16 WebPhonie is that the first connection is extension 11 and the second connection is extension 12.

Plug the power supply into the 230V main socket. The green LED will light up.

Enter the MSN numbers (see below).

You now can make calls. After lifting the telephone receiver you will hear the dial tone of the telephone exchange.

An incoming call received on one of your MSN numbers will ring extension 11 and 12.

# Installation

## Wallmounting

- Mark two vertical drill holes 125 mm apart on the wall.
- When marking the drill holes, make sure that there are no concealed lines at these points (gas, water pipes, electric cables or similar).
- Drill the two holes.
- Hammer in the plugs flush with the wall.
- Screw in the two screws leaving the head protruding by about 4 mm.
- Hang the telecommunications system on the screws and pull it down on the wall until it snaps into place.

## Connecting extensions to separate sockets

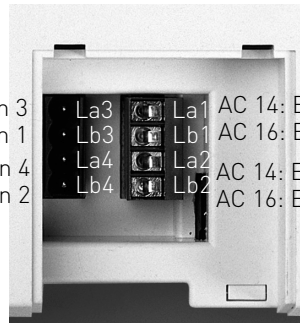
Extensions sockets are allocated on the front of the housing of your AC 14 / AC 14 WebPhonie / AC16 WebPhonie. If you want to hard wire your extensions, then you will find extension connection terminals underneath the system cover on the right hand side.

Unplug the power pack from the 230 V mains socket before working on the connection panel. Replace the cover before plugging the power pack back into the mains socket.

The assignment of the extension connections is displayed on the connection panel. To ensure perfect functioning of the telecommunications system and the connected extensions, you should connect the terminals either to the sockets or the plug-in terminals! This means that if a extension is connected directly via a socket, e.g. connection 1, no second device should be connected via the terminals at the same extension connection, e.g. La1/Lb1. The connections La and Lb of the plug-in extensions are connected with connections 1 and 2 of the separate sockets. You can use commercially available telephone lines for the connection. We recommend: telephone lines  
Length between telecommunications system and sockets: max. 800 metres at 0.6 mm wire diameter.



AC 14: Extension 3	• La3	• La1	AC 14: Extension 1
AC 16: Extension 1	• Lb3	• Lb1	AC 16: Extension 5
AC 14: Extension 4	• La4	• La2	AC 14: Extension 2
AC 16: Extension 2	• Lb4	• Lb2	AC 16: Extension 6



# Installation

## Enter MSN numbers quickly

MSN numbers on which you can be called can be programmed quickly and easily. With this function you can enter the MSN and at the same time allocate each MSN to the connected telephone apparatus.

Example: For the first socket (Phone) you enter the telephone number (345678). For the second socket (Fax) you enter the phone number (345677). Therefore, callers ringing 345678 will call your phone and callers ringing 345677 will call your fax machine.

For further information see "Programming Instruction".

Start programming mode:  \*    (if required enter PIN, not activated in default)  

**PRO**



\* 6 7 6 7

6

 #



lift receiver







**MSN** quick programming

**MSN-**  
Index

Enter Multi  
Subscriber  
Number (MSN)

Confirmation  
tone

replace  
receiver

Stop programming mode:  \*     

**END**



# User Guide

## Making a Call

To make an internal call, pick up receiver and dial the 2 digit extension number. Note: Each extensions can have two seperate numbers. Please contact your Telephone System Manager for an Internal Telephone Directory. To make an exchange line call depends on how your telephone system is programmed. For users who's extension is set to .Spontaneous line seizure with internal' just need to dial the the required telephone number. If you would like to make a call to another extension on your telephone system, then please prefix the extension number by #. If a line access digit is set then you have to dial 0 (or 9 as the case may be) to get an outside line and then dial the telephone number required. If you would like to call another extension on your system, then just dial the two digit extension number. If Call Forwarding is active on your line, then you will hear a special dial tone from the telephone exchanger after you connect to the line. This will remind you that this or another feature may be set in the exchange.

### Making a call spontaneous seizure with internal

#### External call



Lift receiver  
External dial tone

Enter external phone number

#### Internal call



Lift receiver  
External dial tone

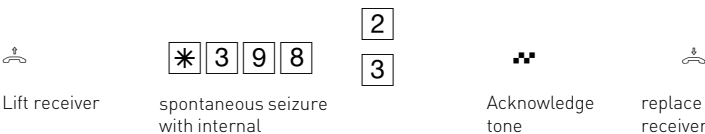
Press the hash key

Internal dial tone

Enter internal phone number

### Setting External Seizure

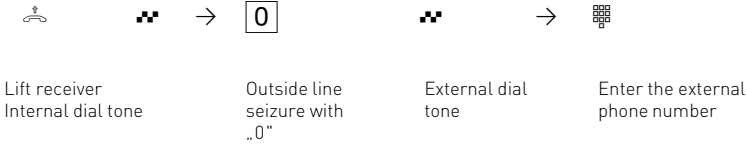
If you switch of the spontaneous seizure with internal, you have to dial a line acces digit, which is set to "0".



# User Guide

## Making a Call (Using Access digit)

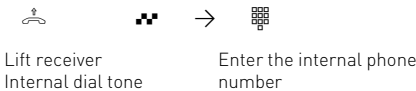
### External phone call



Outside line seizure on the combination port – After the code „10“ has been dialled on the combination port (instead of „0“), the telephone system also seizes an outside line. However, it assigns the fax service to the connection. When an outside line is seized by dialling „0“, the telephone service is assigned.

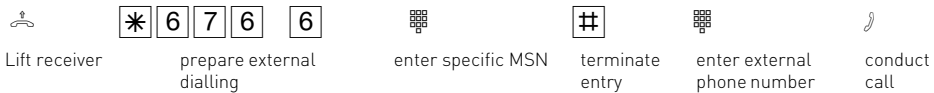
Forwarding your number. The telephone number which has been allocated to your extension will be forwarded to the called party. You may also forward an alternative number if this is available to you by selecting another line or MSN number via a \*-procedure.

### Internal phone call



## External Access with specific MSN

You may send another MSN number other than the one allocated to you to the network.



## Reserving an outside line (Call Back when free)

On requesting an outside line you will hear busy tone if all lines are engaged. You may now request for a line to be reserved. As soon as an outside line becomes free the system will phone you back. When picking up the receiver you will hear external dial tone and can dial your number.





# User Guide

## Notes

If Error tone is returned to you after dialling the line access code then your extension is call barred.

Barred Calls – You will not be able to make calls for which your extension is call barred. If you try and make a call to a barred number, error tone will be returned to you.

Internal call - Internal dialling is not possible on telephones for which spontaneous outside line seizure with internal is set and which do not have a R key (hash key) or which do not support this key.

DTMF signalling -Is possible to send DTFM Tones during a connection. This can also be done during an enquiry call, Brokers Call and Three Party Conference. Any digit from 0 – 9 including \* and # can be transmitted.

An outside line which has been reserved will only ring your extension for 60 seconds after which the call back for the outside line will be cancelled.

If an error tone is returned when booking a reservation for an outside line, then this means that the line has already been reserved by another extension.

You may dial 99 on telephones which do not have a S button.

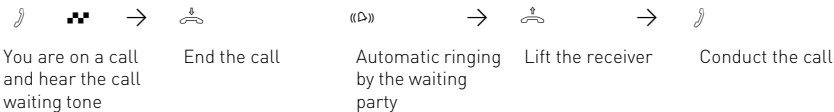
## Accepting Incoming Calls

Incoming calls will be signalled with a different ringing cadence for incoming-, extension- and doorphone calls. You can also be called whilst already on a call, this will be indicated to you by a call waiting tone in your handset.

## You are called



## Call waiting





## Call waiting




# User Guide

## Rejecting an external waiting call

   
You are on a call  
and hear the call  
waiting tone

**R**  
Press R the  
call is placed  
on hold

**\* 2 2 9**  
Reject the waiting  
call

  
Continue your call

## Notes

If you hear error tone when trying to answer a waiting call, then the call waiting tone is for the other party.



The call waiting tone can be switched off by setting .Call waiting deny

## Call Waiting Deny

  
Lift Receiver




**\* 2 6 5**  
Call Waiting  
Deny

**2**  
**3**

   
acknowledgement replace receiver  
tone

## Call Back when free

An extension already on a call will hear call waiting tone if called by another extension or outside call. If the extension does not answer your call then you can request ringback when free.

    
Lift receiver dial external  
number

**R \* 7 8 3**  
Call Back when Free

  
replace receiver

# User Guide

## Call Transfer

You can transfer an incoming call to an extension or another external number. When transferring a call to an extension you can announce the caller before replacing the receiver.

### Internal Transfer with announcement

You call the extension in an enquiry, you announce the external call and you replace the receiver. You have now transferred the external call.

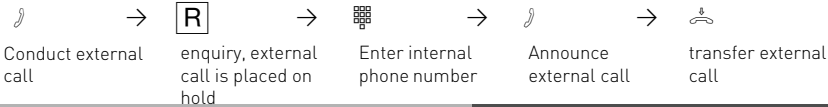
### Internal Transfer without announcement

Press the R button and dial the required extension, replace the receiver on hearing ringing tone.

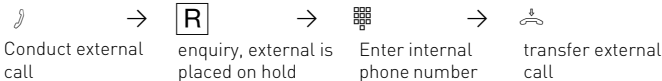
### External Transfer is only possible with an announcement

Whilst on a call place the existing call on hold and call the other required party. Announce and transfer the call.

## Internal Transfer with announcement







## Internal Transfer without announcement



# User Guide

## External Transfer

 Conduct first - external call	<b>R</b> enquiry, external call is placed on hold	<b>0</b> Seize outside line	 Enter external phone number	 Conduct second external call	→
<b>R</b> <b>*</b> <b>8</b> <b>3</b> <b>2</b> Transfer first - external call	 Replace the receiver				

## Notes

When transferring an external call, you must always seize the outside line by entering „9“, even if spontaneous outside line seizure with internal is set on the telephone.

External Transfer is only possible if a dial-up line (B-channel) is free.

You bear the cost of the externally transferred call.

A user on the internal S0 bus can only forward an external call internally if the second B channel of the internal S0 bus is free. External/external Transfer is not possible.

Internal Transfer with announcement

If the internal user does not answer, you are connected back to the external subscriber after dialling **R|9**. If necessary, you can transfer this external subscriber to another internal user.

During an enquiry call the outside caller will hear Music on Hold. (if activated)


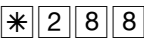



A unannounced transferred call will be returned to you after 45 seconds if the extension fails to answer it. The call will be cleared if you also fail to answer the call within 60 seconds.

# User Guide

## Auto Dialling (Hotline)





With this feature a pre-set number is dialled within 10 seconds after lifting the receiver. Calls can still be made normally providing dialling commences within 10 seconds.


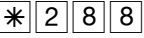






## Switch Auto Dialling on/ off

Lift receiver    Automatic dialling    on / off:    Acknowledgement tone    Replace receiver


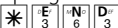


## Storing/ Deleting a Number for Auto Dialling

You must start programming mode by entering:  →   

Lift Receiver    Automatic Dialling    Store    Delete    Enter an external phone number, max 24 digits and conclude with #    Acknowledgement tone    Replace receiver

Continue programming or end the programming mode by entering:

 →   

## Notes

Check your Auto Dialling setting after programming the external phone number. Activate the Auto Dialling mode, lift the receiver, wait -until the external phone number is dialled and check that the right connection is -established.

The Auto Dialling function has preference over all other external connections. If necessary, one line (one B-channel) will be force released in order to complete autodial.

If the called party is busy, the telephone -system attempts to redial the external phone number every 10 seconds.It cancels Auto Dialling after 12 -attempts.


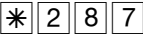






If you hear the error tone when you activate the Auto Dialling feature, no telephone number has been programmed.

If the Auto Dialling feature is on, you hear the special dial tone when you pick up the -receiver.

# User Guide

## Busy on Busy

This feature is used in the following situation. If an incoming line is programmed to ring several phones, then each time a new call arrives the free extensions within the group will ring. If, however, for some reason you are the only one in the office and are already on a call then the next incoming call would cause the free extensions to ring. It may not be possible to answer the new call in time and therefore the caller may get the impression that no one is in the office. If Busy on Busy is set on the other hand than any extension within the ringing group who is on a call will cause for a new caller to hear busy tone. Note: This will not place restrictions on outgoing calls.



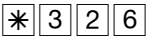


					
Lift receiver	Busy on Busy			Enter specific MSN	Replace receiver
				Busy on Busy on/off for all MSNs	

## Notes


An ISDN terminal that is connected in parallel to the telephone system on a point-to-multipoint line and to which the same number as the system has been assigned will always ring, regardless if BUSY ON BUSY is active or not.

## Malicious Call Identification (MCID)

This feature will have to be supplied by your network provider. The ISDN exchange will store the callers number and the date and time of the call. This trace can be activated during the call or after the caller has hung up but must be activated before you terminate the call.

				
Conduct external call	Enquiry	Identify caller	Acknowledgement tone	Replace receiver

## Notes

You can continue the call after 

Until you return to the caller he will hear Music on Hold if applicable.


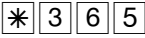
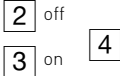



You hear the error tone if:

- Malicious Call Identification has not been made available by your network operator
- OR
- when the caller could not be identified by the telephone exchange.

# User Guide

## Diversion from - Divert other Extensions

You can divert other extensions to your own which may momentarily not be staffed. After the diversion is enabled, the diverted phone will not ring for any further calls. Calls can still be made normally from the diverted extension. A special dial tone will remind the diverted extension that a feature is enabled.

					
Lift Receiver	Diversion from	Enter the number of the phone from where you wish to divert calls	Acknowledgement tone	Replace receiver	



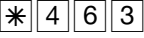

### Notes

Calls can only be diverted once. Calls diverted to you are ringing your extension only even if you have set a 'Diversion to' on your phone. A "Diversion from" a phone where the Do Not Disturb feature has been set to your extension is possible. Returned Calls, Wake Up and Appointment calls cannot be diverted. Users of radio cells (base station with cordless telephones) cannot activate diversion.

## Call Pick Up

Another telephone rings with an external or an internal ringing tone. You can pick up this call on your telephone. You can also pick the call up if the answering machine has already answered it.

### Unselective Call Pick Up of an external call










			
External call on - another telephone	Lift the receiver	Pick up external call	Conduct call

### Notes

Instead of \*463 you can use the makro \*1.

# User Guide

## Selective Call Pick Up

 call on another telephone	 Lift the receiver	    Enter the code	  Key in the phone number of the internal extension.	 Conduct call
--	--	---	---	---

## Pick Up (from Answering machine)

To be able to pick up a call from an -answering machine, the terminal connection must be programmed as an answering -machine. You can only pick up external calls non-selectively. You can selectively pick up the call signalled to the selected extension.

## Conference

### Three Party Conference via your Phone System

You can hold a three party conference with analogue or digital extensions of the system.

Or with one external call and one extension



Or with two external calls. Note you will use 2 lines [B Channels]

### Three Party Conference via the ISDN Telephone Exchange (PTMP lines only)













**Note this service is a feature of the Telephone Exchange and may not be available.**

To establish a three party conference via the exchange you must first establish the call with the first party. Then hold the call in the exchange to establish an enquiry call on the same line to the second party after which you will switch to a three party conference.

## Three Party Conference (with two other extensions)

 You are conducting an internal call	  Enquiry, enter internal phone number	 Conduct inquiry call	 Enquiry	    enter conference code	  Acknowledgement tone, Conference with three parties
--	---	---	--	--	--

## Internal - External Three Party Conference

 You are conducting an internal or - external call	   Enquiry, enter „0~“ and external or internal phone number	 Conduct enquiry call	 Enquiry	    enter conference code	  Acknowledgement tone, Conference with two internal users and one external subscriber
--	--	---	--	--	---





# User Guide

## Notes

An incoming – or doorphone call will be signalled to the conference with the call waiting tone if the called extension is part of the conference. The Pick Up of a call is only possible by the extension who established the conference (Conference Manager) by pressing **[R][\*][5][6][6]**. The other members of the conference are put on hold until the conference manager has finished the enquiry call by pressing **[R][R]** after the conference is re established. If an extension replaces the receiver then that extension is disconnected from the conference and can only be re invited via the conference manager. The conference is cancelled as soon as the conference manager replaces the receiver.

## Least Cost Routing (LCR)

This feature will make use of various network providers offering cheap call rates. Calls are routed depending on the STD Code dialled which is also dependent on the time and day of the week. If it is not possible to connect to the relevant provider after a preset number of attempts then the system will try to route the call via a preset alternative provider. (Fallback) The access code of the relevant provider will be prefixed by the system to the number dialled. The Least Cost Routing can cater for up to 8 network providers in 8 time slots depending on time of day and day of week. Least Cost Routing can be programmed with TK-LCR on your PC. Least Cost Routing can be switched on or off on your extension.

	<input type="checkbox"/>	<b>[2]</b>	Off		<input type="checkbox"/>	
Lift Receiver		<b>[*][5][2][7]</b>	On			Replace Receiver
	Code for LCR			Acknowledgement tone		

## Notes

You can still select which network provider is used for your call despite LCR being enabled.

- Simply prefix your number with the network access code
- You can also select the network provider with the function button CALL BY CALL on a system phone. (see also Network access code -Call by Call ).

The network access code for the network operator is only stored in the last number redial memory if this has been dialled manually before.  
Important! Not all ISDN features described may be available. Please check with your network provider for availability.

# User Guide














## Switching between Day and Night Service

Which extension should ring on an incoming call is set in the 'Call Variant' under Day/Night Service. If several extensions ring on an incoming call then the one who picks up the receiver first will have answered the call.

An incoming call can ring different extensions depending if the system is running under Day or Night Service.

Night Service can be set for each incoming line separately.

Day – Night Service can be activated from any extension on the system or remotely. Please refer to the operating instruction for an analogue phone on how to switch Day- Night Service from an external phone.









	   	 Off	  individuell MSN			
Lift receiver	Switch call variant 2	 On	 All MSNs		Acknowledgement tone	replace receiver

## Parking a Call


You can park an external call in the system and retrieve this from another extension. The parked call will engage the line (B Channel). The parked caller will hear Music on hold (if enabled). Calls parked will recall your extension within 4 minutes if it has not been retrieved.

This function can be activated in the configuration section 'other functions' or via a program entry on the phone.

## Parking a Call

		   		
You are conducting an external call	Enquiry	Enter the parking code	Acknowledgement tone	Replace receiver The call is parked.

## Retrieving a Call

	   	
Lift receiver	Enter the parking code	The call is unparked, conduct call

# User Guide

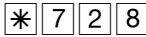
## Baby Listening / Room Monitor

Any phone can be used for this feature (system- or standard phone) The phone set to Room Monitor (Baby Listening can be called from any telephone either internal or external). A system phone when called will switch on the microphone automatically. This feature must be enabled for the phone intended to be used as a monitor. You can select whether or not a warning tone sounds when listening into a room. The monitor phone can be called from any phone either internal or external.

### Set Up Room Monitor



Lift receiver in the room to monitor



Initiate room - monitoring



Acknowledgement tone



Place receiver next to the guarding telephone

### Calling the Room Monitor Extension



Lift receiver



Enter the guarding telephone's internal phone number



Listen into the room

### Cancelling room monitoring



Replace receiver in the monitored room

### Notes






You can also use a telephone in the hands free mode as the guarding telephone. Please note, you can also be heard at the monitored phone.

# User Guide






## Enquiry

You can place your current call on hold, while you talk to an extension or another external call. The caller on hold will hear Music on Hold and can not overhear your conversation. Whilst on an enquiry call you can use all functions such as telephone book, paging etc.

## Internal Enquiry



	<b>R</b>			<b>R</b>	→
Conduct first call	enquiry First call is on hold	Enter internal phone number	Conduct enquiry call	Enquiry call and first call are placed on hold	
	Enter „0” to switch to the external call or the internal number to switch to the internal call		→	etc.	
Back to the first call:		Continue first call			

## External Enquiry

	<b>R</b>	<b>0</b>			<b>R</b>	→
Conduct first call	enquiry First call is on hold	Enter external phone number	Conduct enquiry call	Enquiry call and first call are on hold		
	Enter „0” to switch to the external call or the internal number to switch to the internal call		→	etc.		
Back to the first call:		Continue first call				

## Enquiry (Mute)

To talk to another person in the room without the caller being able to hear:

	<b>R</b>	<b>R</b>	
Internal or external call	Connection is placed on hold. You can talk without the telephone partner hearing.	Continue telephone call	Replace the receiver

# User Guide

## Notes

When making an external enquiry / brokering you must always seize the outside line by pressing „0“, even if spontaneous outside line seizure with internal is set on the telephone. An outside caller will hear Music on Hold if placed on hold.

If you replace the receiver during an enquiry:

- You clear the current call,
- You receive a callback if a call is still on hold,
- You transfer an external call on hold to the internal user with whom you were in an enquiry.

Connection charges are incurred for the external call, even while the call is on hold.

## Automatic Call Back

You can set up an automatic call back if the number you are calling is busy. This feature is only available to subscribers of ISDN lines. Your phone will ring as soon as the called party replaces the receiver. The other party will be called automatically as soon as you pick up your receiver.



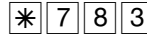
Lift receiver



Call the external subscriber,  
busy tone, the subscriber is busy



Enquiry



Set Up Callback



Replace receiver

## Notes

If you hear the error tone then it will not be possible to be called back from the busy number. The feature Call Back on busy is not available from the telephone exchange. The feature will be cancelled if you do not answer the returned call within 20 seconds.

Call Back will be cancelled if the Call Back feature is completed or failed to connect the call after 45 minutes.

## Do Not Disturb












You do not wish to be disturbed by calls and you activate the do not disturb feature.

You can also define whether do not disturb is to apply only to internal calls, to external calls or to all calls and you can deactivate do not disturb again.

If do not disturb is active, ringing on your telephone is off and internal callers hear the busy tone. You can continue conducting telephone calls in the usual manner. When you pick up the receiver, the special dial tone reminds you that the do not disturb feature is on.

# User Guide

## Do Not Disturb on/off

	   	 off		
Lift receiver	Do not disturb	 on for all calls	Acknowledgement tone	Replace receiver
		 on for external calls		
		 on for internal calls		

## Telephone lock - direct call (baby call)










You can protect your telephone against unauthorised use by locking it.

If your telephone is locked, you can:












- only call extensions
- accept all incoming calls and transfer them to extensions
- only call the stored emergency and direct call phone number.

In addition you can use automatic dialling (Hotline) but this feature must have been enabled before locking your phone. If you have programmed a PIN number for your phone, then this must be entered to either lock or unlock your phone.

## Telephone lock on/ off

	    (Telephone-PIN)	 lock off		
Lift receiver	Telephone Lock	 lock on	Acknowledgement tone	Replace receiver

## Programming / Clearing Telephone Lock (PIN)

	    (Telephone-PIN)	 Programm	 		
Lift receiver	Telephone PIN	 Clear	Enter the new 4-digit PIN (0000 to 9999), acknowledgement tone	Acknowledgement tone	Replace receiver
	Enter old PIN if needed				








# User Guide





## Direct call (Baby call)

The Telephone is locked. When any button is pressed, the number stored as the direct number is dialled.

The emergency call/direct call function has priority over all outside connections in progress. If necessary a call in progress will be force released in order that the emergency call can be set up.






## Store/ Clear the Direct Call Number

Programming mode must be started by entering :  →      

      Enter     





 Delete

Lift receiver      Direct Call      Enter Direct Call Number without „0“ ; Confirm input      Acknowledgement tone      Replace receiver

Continue programming or end programming mode by entering:  →       







## Storing and Dialling Phonebook Numbers (Central Dialling Memory)






You can centrally store up to 200 important external phone numbers and affiliated names in the telephone system. These telephone numbers can be retrieved from any analogue phone.









As well as normal phone numbers you can also store code digit procedures in your phonebook using the  and  keys. This means you can then use all the procedures on telephones which do not support the  and  keys.









Numbers in the Phone Book can be retrieved alphabetical, numerical or as vanity dial. Vanity dialling: With the Vanity dialling you do not have to remember the location of the speed dial number in the phone book. Just enter the name .

### Example:      Select entries in the phone book with

Dellmann           


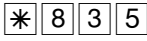








Diener          

Edner             

Fenlo             

# User Guide

## Phonebook - dialling a number

		  Enter the phonebook destination 0 0 0 to 1 9 9			
Lift receiver	Enter the phonebook code	  Enter name			
		External dialling tone if name has been clearly identified. The destination is dialled automatically after 4 seconds or immediately after entering an  .	Ringing tone, subscriber is called	Hold conversation	

## Notes

You can set in the configuration of the system, if extensions which have no line access can dial numbers from the phonebook.


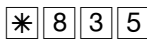








If your extension is barred, then you cannot dial numbers from the phonebook which fall into this category. You will hear error tone.

If a number has been stored without a name in the phone book, then the only method of retrieval will be numeric.

If the Phonebook location has no entry, you will hear an error tone.

## Phonebook - storing / clearing a number

Programming mode must be started by entering :  →        

		 Store	  Index 000 to 199		
Lift receiver	Phonebook	 Delete	  Vanity Name		



Enter an external phone number without „0“ (outside line seizure)

Conclude Acknowledgement  
Programming tone



Replace receiver

Continue programming or end programming mode by entering:  →      



# User Guide

## Timer

The telephone system has a total of 10 timers. These can be used to activate certain functions at specific times. The following features can be time controlled:


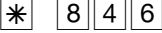





- Day / Night Service
- Internal call forwarding
- Busy on Busy
- External line access
- Telephone lock
- Disable Call Waiting
- Diversion

You can assign a function to any timer.

The timers can only be programmed in the "TK-Set "program.

Timers can be switched on or off manually from any phone for example the Office closes early and therefore night service needs to be switched on prior to the set time.

Several timers can be grouped into one so that they can be activated simultaneously.

		 Timer off	 Timer on			
Lift receiver	Timer			Timer Group	Acknowledgement tone	Replace receiver

## Sending CLIP or COLP

The telephone system transmits your phone number to another ISDN subscriber before the connection is established (default setting of the system). Two types of settings are available within the ISDN network:


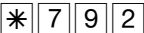




### Forwarding the telephone number to the called party (CLIP = Connected Line Identification Presentation):

Your telephone number will be forwarded to the subscriber you are calling.

### Forwarding the telephone number to the calling party (COLP = Connected Line Presentation):


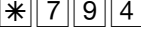


Your telephone number is forwarded to the subscriber calling you. This ISDN feature will have to be ordered from your network provider.

## Setting COLP to on / off

		 off		
Lift receiver	COLP	 on	Acknowledgement tone	Replace receiver

# User Guide

## Setting CLIP to on / off

			
Lift receiver	Clip	Acknowledgement tone	Replace receiver
	<b>2</b> off		
	<b>3</b> on		

### Notes

Your complete number will be send to the network consisting of STD Code and DDI number or STD Code and MSN number, depending if the line is for system access (PTP) or standard access (PTMP). You must transmit a valid number belonging to you. If you transmit a number which is outside your allocated range then the telephone exchange will automatically replace this number with the main number allocated to the ISDN 2 e circuit.

Call charges cannot be billed by Network provider under seperate MSN numbers Therefore change to the following. To transmit a specific MSN number back to the exchange dial the following without "0" :

 **6** **7** **6** - MSN -  - external number.


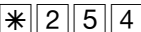


### CLIP - display caller's phone number

On analogue telephones which support the CLIP feature, you will see who is calling before you lift the receiver. For external calls, the caller's number and the date/time are displayed. The name is displayed additionally for internal calls.

You have to set whether or not you want to use the CLIP function on the telephone.

### Switching on CLIP

Programming mode must be started by entering :  →  **7** **7** **0**  

			
Lift receiver	Clip	Acknowledgement ton	Replace reciever
	<b>2</b> off		
	<b>3</b> on		

Continue programming or end programming mode by entering:  →  **3** **6** **3**  

## **Diversion to - diverting calls to another phone**

Diversion via the Phone System

You are able to divert all calls for any phone either to another extension or via the second B channel to any number worldwide. Following options are available:


- Divert all Calls
- Divert when Busy
- Divert no Answer (after 15 seconds)

The diversion to an external number can also be set up remotely from any number worldwide.

After the diversion is enabled, the diverted phone will not ring for any further calls. Calls can still be made normally from the diverted extension. A special dial tone will remind the diverted extension that a feature is enabled.

# User Guide

## Configuring Diversion to

  **7** permanent



**\*865**  **2** on busy


**6** if no answer


Lift receiver      Diversion To      Choose service


→ **Next:**  
**1) Divert Extension**  
or  
**2) Divert MSN**

### 1) Divert Extension

**4**   **3**  external destination  **#**



**4**  internal destination


**5**  abbreviated dialling destination


**8**  Phone Book Name (Vanity)

Enter extension you want to divert      Choose service      Acknowledgement tone      replace receiver

### 2) Divert MSN

**6**   **#**  **3**  external destination  **#**

**5**  abbreviated dialling destination

**8**  Phone Book Name (Vanity)

Enter MSN you want to divert      Choose service      Acknowledgement tone      replace receiver

# User Guide

## Diversion To - deactivate



\* 3 3 2

Lift receiver      deactivate

4



Internal Extension

6



MSN

#



Acknowledgement  
tone



Replace  
receiver

## Diversion To - activate



\* 2 5 8

Lift receiver      activate

4



Internal Extension

6



MSN

#



Acknowledgement  
tone



Replace  
receiver

## Notes

A diversion will not be carried out if the call to be diverted has already being once diverted.  
Diversion to an extension where Do Not Disturb is set are not possible.  
Returned calls, Alarm and Appointment Calls cannot be diverted.

### **Diversion to external subscriber:**

A line must be available for diversions to an outside number.

The diverting extension must have the correct line access level set in order to establish a diversion to an outside number. You will have to pay call charges for diverted calls.

Your telecommunications system can record the costs of calls if your network operator offers the ISDN feature "Transfer connection costs at the end of the call" and the providers you use also transmit these. For technical reasons the data on the telephone bill may differ from the connection cost totals of your telecommunications system.

**PIN (Personal Identity Number)** – You can protect access to the charges menu by entering a 4-digit cost PIN. If you hear the busy tone when you start the cost menu, you have to enter the cost PIN after\*567. If you hear the short acknowledgement tone, no PIN is defined for the cost menu. If you forget the cost PIN, you can change it with TK-Suite on the PC or contact your dealer.

**Before Entering the factor for a tariff unit**, you should program how many decimal places the factor shall have. You can choose from 0 to 3 decimal places.

**Factor for a tariff unit** – Use the maximum 4-digit user factor (e.g. 0,06 € per unit) to define how much a tariff unit costs for every internal subscriber. With the maximum 4-digit basic factor, set your telecommunications system to the amount (Cents per unit) which the network operator charges for one tariff unit.

**Limit / Disconnect at limit** – You can define a 7-digit cost limit (Cents) for every internal subscriber. You can also define what is to happen when the cost limit is reached. Can the internal subscriber continue the conversation he has begun but not start a new external call or will the connection be cut off. The subscriber can only make external calls again after clearing his total costs. Exception: The direct phone number can also be dialled on reaching the limit.

**Transmission of charge pulses** - You can choose whether charge pulses shall be transmitted to your analogue extensions or not.




As-delivered state:





- PIN no entry
- User factor (0,06 €)
- Basic factor (network operator) 0,06 €
- Limit no entry
- Disconnect at limit off
- Cost log off for all subscribers








You cannot telephone as long as the charges menu is started. You hear the special dialling tone when you Lift handset. You cannot telephone again until the cost menu has been exited.

# User Guide




## Programming / Erasing of Charge PIN





Start Charges Menu:  \* 5 6 7 (Charges -PIN)  





	* 7 4 6	3 Programm 7 		
Lift receiver	→	Enter 4 Digit Charge PIN	Acknowledgement tone	Replace receiver

Continue programming or end Charges Menu:  \*      




## Enter Decimal place for basic factor





Start Charges Menu:  \* 5 6 7 (Charges -PIN)  








	* 5 6 6	3 		
Lift receiver	Decimal place	Enter amount of decimal place (0-3)	Acknowledgement tone	Replace receiver

Continue programming or end Charges Menu:  \*      

## Programming / Erasing of basic factor




Start Charges Menu:  \* 5 6 7 (Charges -PIN)  

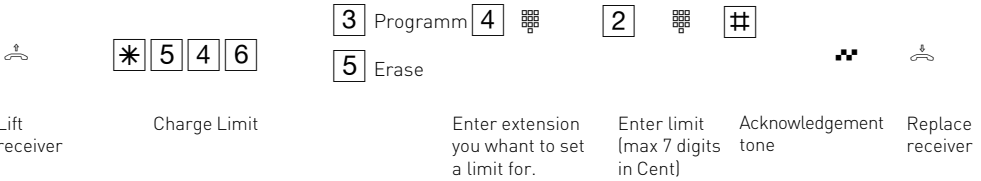
	* 3 2 5	3 Programm 4 Basic	2 	
		5 Erase 8 User		
Lift receiver	factor	Enter factor in Cent, max 4 digits	Acknowledgement tone	Replace receiver







Continue programming or end Charges Menu:  \*      

# User Guide




## Programming / Erasing of charge limit

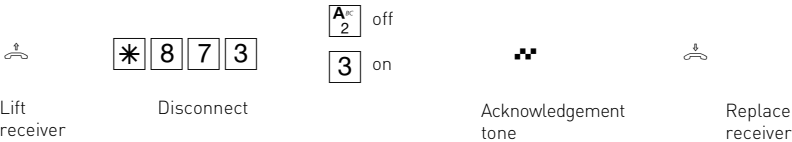
Start Charges Menu:  \* 5 6 7 (Charges -PIN)  









Continue programming or end Charges Menu:  \*     




## Disconnect on charge limit

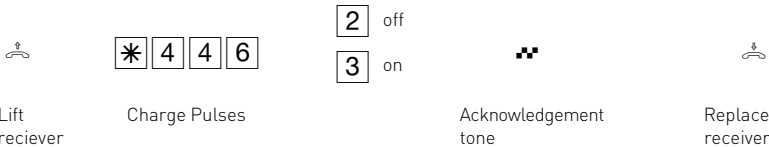
Start Charges Menu:  \* 5 6 7 (Charges -PIN)  









Continue programming or end Charges Menu:  \*     

## Transmission of charge pulses on/ off

Start Charges Menu:  \* 5 6 7 (Charges -PIN)  











Continue programming or end Charges Menu:  \*     






# User Guide

## Define Charge Pulses

Start Charges Menu:  \*567 (Charges -PIN)  

	*467	 9	12 kHz		
		 7	16 kHz		
Lift receiver	Define Charge Pulses			Acknowledgement tone	replace receiver

Continue programming or end Charges Menu:  \*363  

## Display charges of the last connection

You can display the charges of your last connection that are stored in the telephone system at any time. To do this, it suffices if you have requested the „communication of connection charges at the end of the connection“ feature from your network carrier.

	*432		
Lift receiver	Display charges	Acknowledgement tone	Replace receiver

## Notes

If you wish to display the charges of the last connection by entering \*432, please note that your telephone's totalizer may total up the costs of the last connection.

For technical reasons, the data on the network carrier's invoice may deviate from the total call charges displayed by the telephone system. The charge units counter in the network carrier's exchange is always binding.



# Programming

## Programming via PC

After installation, your telephone system is prepared to enable you to immediately conduct telephone calls in the usual manner and to directly benefit from further advantages of the system. However, the system allows diverse programming possibilities so you can configure it to suit your very own personal needs. Without needing to have any knowledge of a programming language, you can program the telephone system from a PC connected via the USB Interface. Easy to understand menus will guide you through the system programming. The enclosed CD Rom contains the programming software.

## System Requirements

- IBM- or compatible PC with hard disk and CD-ROM drive
- Pentium II 233 MHz or higher
- at least 64 MB RAM
- Microsoft Windows 2000/ME/XP
- USB Interface

## Install Configuration Software

-refer to Communication via PC, install TK-Suite

# Programming

## Remote setting - Remote configuration

Your telephone system can be programmed remotely to your requirements. To allow remote maintenance you must set the telephone number from which your maintainer is calling. It is only possible to gain access to the system if the programmed number corresponds to the transmitted CLIP of the maintainers number. You may restrict access to the telephone book of the system. Your system can be programmed for up to 8 hours from the time you released your system for remote maintenance, after which it will lock again. You must end your own programming during the time in which the system is programmed remotely.

## enter Remote Configuration Number



\* 3 3 7

3 Enter

3  #



Lift receiver

Remote configuration

5 Delete

Enter Remote Configuration number

Confirmation tone

Replace receiver

## Allow Remote configuration



\* 3 7 3

4 Without phone Book



Lift receiver

Allow


5 With Phone Book

Confirmation tone

Replace receiver

# Programming

## Programming with a telephone

Programming with the  procedure always covers the steps:

Start programming mode, input and exit programming mode.

When programming, pay attention to the dial tones or dial pulses in the handset. Wait after entering every digit until the digit has been dialed. Only then will you hear the acknowledge tone if your entry is valid or the error tone if your entry is invalid.

Recommendation: Use a DTMF telephone (touch-tone dialing) for faster programming.

You can press the loudspeaker button instead of „Lift handset“ or „Replace handset“ when programming on the system telephone.

## Start Programming Mode

To be able to change settings you must first start the programming mode. While your system is in programming mode, you are not able to make a call!



Lift  
receiver



Start Programming Mode

(Setup-Code)











Confirmation tone,  
otherwise enter System  
PIN



Replace receiver

Enter setup code?

If you hear the acknowledge tone after    , no setup code is programmed in the telephone system. It is not necessary to enter the setup code. If you hear the error tone, the last input is wrong. Start the input again from the beginning. If you do not hear any tone after    , a setup code is programmed in the telephone system. Enter the setup code in 4 digits. If the code is correct, you will hear the acknowledge tone. If the code is wrong, you will hear the error tone. Replace the handset and start the whole input again from the beginning with the correct setup code.

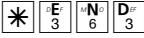
# Programming

## End Programming Mode

After you have made all the settings, you exit the programming mode. At the same time you save the new settings. These are retained even in the event of a power failure.



Lift receiver



End Programming Mode



Confirmation tone



Replace receiver

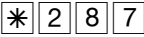
## Reset to delivery settings

You Can reset your System to delivery settings. **Attention!** All connections will be disconnected. The reset takes approximately 2 minutes. The programming mode is ended.

Start programming mode with:



Lift receiver



Reset to delivery settings



Confirmation tone



Replace receiver

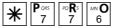
# Programming


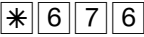









## Storing of MSN's


You can store every Multi Subscriber Number (MSN) in your telephone system which has been allocated to you by your Network Provider.

Up to 10 MSN numbers can be stored in the telephone system. Enter each of the Multiple Subscriber Number separately and without the STD code after each \* procedure.

With the selection of 'quick' you will store the MSN and at the same time allocate the connected apparatus to ring when a call is coming in on that number.

Started Programming Mode with  !

		 Enter	  Store MSN			
		 Delete	 Delete all MSN's			
		 Quick				
Lift receiver	Store MSN		Enter MSN or Delete all MSN's	confirmation tone		replace receiver

continue or end programming  !

## Incoming Call Distribution

In the call distribution you enter which extension of your system should be called on which incoming MSN. You may allocate one or more extensions to one MSN.

For each of the MSN number of your system you may select three modes.

Day Service

Night Service

Diversion to internal

The Day and Night Service can be activated from every phone, even remotely.

With the internal diversion you can select which extension should ring if the first one has failed to have answered the incoming MSN. In which case you can program the number of rings after which the call will be forwarded. The call will be forwarded immediately if the extension or extensions of an MSN are busy. The forwarding of calls is only active if it has been switched on. This can be done from any extension or even if you are on the move.

### The default setting is:







Day Service is active for all MSN, no extension number entered, an external call will ring the extension 11 and 12.





Night Service and Call forwarding is set to off and no extension numbers are entered.

Setting of number of rings before call is forwarded: 5

# Programming

## Day Service

Start Programming mode with:  \*     

 \*   

 Enter










Lift receiver Day Service

Enter MSN





Enter internal subscriber

Confirmation tone Replace receiver

Continue or end programming:  \*     

## Night Service

Start Programming mode with:  \*     

 \*   

 Enter














Lift receiver Night Service

Enter MSN





Enter internal subscriber

Confirmation tone Replace receiver




Continue or end programming:  \*     

## Call forwarding (internal)

Start Programming Mode with:  \*     

 \*   

 Enter









Lift receiver Call Forwarding

Enter MSN

Enter internal subscriber






confirmation tone Replace receiver













continue or end programming:  \*     










# Programming

## Rings until forwarding

Start Programming mode with:     






           













Lift receiver      Rings until forwarding      Number of rings [2-8]      Enter MSN to be forwarded      Confirmation tone      Replace receiver

Continue or end programming:       





## Setting Ringer Rhythm for incoming external calls

In order to distinguish between calls to different numbers, the phone numbers in the system can be assigned four different ringer rhythms instead of the normal external call ringer. The ringer rhythms are code rings 1 and 2, supplemented by code rings 3 and 4.

Start Programming mode with:     

Lift receiver      Rhythm      Enter Rhythm 0 to 4      Enter MSN      Confirmation tone      Replace receiver

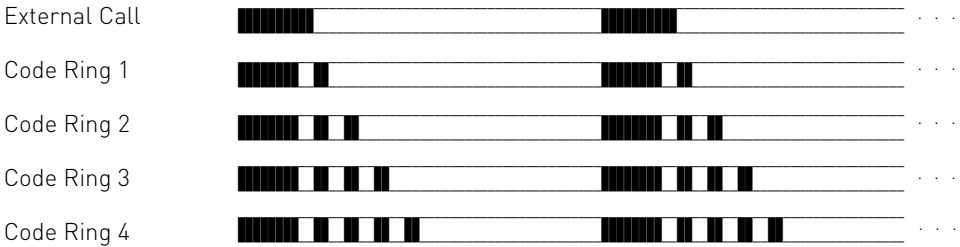
Continue or end programming:       

## Notes

All ringer rhythms for incoming calls begin with an initial 500 ms pulse, followed by a 2 second pause. This is a technical requirement to allow caller identification (Calling Line Identification Presentation - CLIP). Thereafter the ring can be programmed differently to distinguish between calls to different extension numbers in the system (see diagram on page P - 8 ).

# Programming

## Ringrhythms



The rings may be different, depending on terminal equipment in use.

## Access to the ISDN Network

Here you select which extension has access to the network and which MSN number is going to be used for this. Note the selected MSN will be forwarded to the called party and call charges will be allocated to this number. You can select the following for each MSN number.

**Preferred** – these MSN's will be automatically forwarded if line is selected with 'spontaneous with internal' or with 0.

**Freely** – these MSN can be freely selected from any extensions with \*676 and the MSN. Note this is only possible if the line seizure 'spontaneous with internal' is not active. If the extension is allowed to access several MSN numbers then the first entered MSN number, on line seizure either spontaneous or with 0 will, be sent.

**Barred** – This MSN number will be barred for the particular extension.

**Default Setting:** All extensions have access to the ISDN Network for all MSN's.

Start Programming mode with: \* P 7 R 6



\* 9 8 4

2 Preferred

3 Freely

4 Barred

on 4

6 Enter MSN

2 All MSNs

#



Lift receiver

Access

Select Service

Enter extension number for which the access should be valid

Selection for one MSN or all MSN's of the System

Replace receiver

Continue Programming or end programming mode: \* E 3 N 3 D 3

**END**

# Programming

## Set Call Barring

Normally the extensions have no restriction. However, you can restrict extensions of making certain calls. The following settings are available :






- Full (none restricted)
- National
- Internal only ( no incoming or outgoing calls)
- Local Calls







none- (extension calls and incoming calls only)

Default setting: Full access with no restrictions for all extensions.

Irrespective of the level of barring you can set for each extension telephone numbers which cannot be dialled.

Start Programming mode with:  \*     

		<b>8</b>	Full				
		<b>4</b>	National				
	<b>*</b>	<b>2</b>	<b>3</b>	<b>7</b>	<b>4</b>		
		<b>6</b>	Internal only				
		<b>2</b>	Local				
		<b>5</b>	None				
Lift receiver	Call Barring	Select Service	Enter extension Number for which the access should be valid	Confirmation tone	Replace receiver		

Continue programming or end programming mode:  \*       
**END**

## Notes

Numbers of the phone book can always be dialled regardless of the set barring level, providing the check box in TK Suite, calls outgoing, set-up line access for extensions, phone book access is ticked. (Default Setting)

# Programming

## Program Exceptions Codes





With this feature you can make exceptions to the barring table. This means that even if an extension is barred to make a long distance call, then an exception to this rule can be entered in a separate look up table. Exception codes are telephone numbers which can always be dialled. You can allow access to an exception code even if the STD code falls in the barred number.

For example.






Barred Number is: 1234

Exception Number is: 12345

This means that the number 1234 is generally barred except if the fifth digit is five. In other words all numbers starting with 12345 can be dialled but not 1234x, where x is any other digit then 5. Note: Extensions who are not authorised to dial externally will be allowed to dial the number as entered in the exception code table.

Start Programming mode with:  \*  7  7  6 

	   	 Enter	 	 			
Lift receiver	Exceptions Codes	Enter Index 0 to 9	Enter STD code, max 6 digits	Confirmation tone	Replace receiver		



Continue programming or end programming mode:  \*  3  6  3  **END**














## Program Barred Numbers


You can program of up to 20 telephone numbers which are barred. A barred number is which certain extensions of the telephone system are not allowed to dial, such as chat lines etc.

**Default setting:** No barred numbers entered, no barred numbers allocated.

## Enter Barred Numbers







Start programming mode with:  \*  7  7  6 










	   	 Enter	 	 			
Lift receiver	Barred numbers	Enter Index 01 to 20	Enter STD Code, max 6 digits	Confirmation tone	Replace receiver		


Continue programming or end programming mode:  \*  3  6  3 

# Programming






## Assign Barred Number (to Extensions)

Start programming mode with:  \*     

 \*     Off    

 On

Lift receiver      Assign Number      Enter Extension Number      Confirmation tone      replace receiver

Continue programming or end programming mode:  \*     

# Programming

## Enter Terminal Types





Settings are available dependent on the connected terminal types. Certain functions are then automatically active.

### Make the setting on every terminal:

- **Telephone:** The call waiting prevention is switched off and can be switched on. A call with the "Fax" service ID is not signalled.
- **TAM:** The call waiting prevention is switched on permanently. Anyone can pick up a call from this connection.
- **Fax:** The call waiting prevention is switched on permanently. A call cannot be picked up. The "Fax" service is transmitted. Calls with the "Fax" service ID are always signalled at this connection.
- **Modem:** The call waiting prevention is switched on permanently. A call cannot be picked up.
- **Combi-device:** A combi-device is a telephone with integrated fax. In the combi-device a call is generally assigned where it is to be signalled according to the set ringing assignment irrespective of the transmitted service ID. In the case of external seizure with "0", use the "Telephone" service. In case of external seizure with "10" use the "Fax" service. The call waiting prevention is switched on permanently.

As-delivered state:

- Connection 1 – telephone, internal phone number 11
- Connection 2 – telephone, internal phone number 12

Start programming mode with:  \*   



\* 8 9 7

3 Enter

8

5 Delete

8 3 5

Telephone

2 6 7

TAM

3 2 9

FAX



6 6 3

Modem

5 6 6







Combi-device

Lift receiver Terminal type

Select Type

Confirmation tone

Replace receiver

Continue programming or end programming mode:  \*     

# Programming

## Program Macros

You can program a function which you want to use frequently as a macro. Two macros which you can select with \*0 or \*1 on every telephone are available in your telecommunications system.

The following standard functions are stored as macros in the as-delivered state:


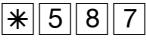






\*0 = \*835    8 (Call the phonebook with Vanity input)  
\*1 = \*463    (Pick up an external call)

You can program any function as macro 0 or 1. Every function starts with \*.

You can also combine several functions in one short command.

If you replace the handset before terminating the short command input with \*KUR, the entry will be cancelled. If you delete or cancel a short command input, the appropriate standard function is programmed again.






Start programming mode with:  \*     

   Enter  
 Delete    

Lift receiver                      define macro                      Enter Index: 0 or 1                      Confirmation tone                      Enter function. do not replace receiver                      Enter next function if needed

define macro                      confirmation tone                      replace receiver

Continue programming or end programming:  \*     









# Programming

## Brokerage - Set Variant




In brokerage you switch back and forth between two parties. One subscriber is held whilst you are speaking to the other one and cannot hear what you are saying. For brokerage with external subscribers, you can define whether the brokerage (Hold) is to take place in your telecommunications system or in the ISDN exchange (Exch). Difference when brokering with two external subscribers: Brokerage in the telecommunications system – The two lines (B-channels) are busy. Another external connection is not possible. Brokerage in the Exch (HOLD) – Only one line (Bchannel) is busy. The 2nd B-channel is free for another external connection.

As-delivered state: Brokerage in the ISDN exchange

Start programming mode:  \*  7  7  6  

 \*     Off    
 On

Lift receiver      Brokerage in ISDN      Confirmation      replace receiver  
Exchange

Continue programming or end programming:  \*  3  6  3  









## Adjusting the flash time

Analog telephones with tone dialling need a flash key, among others, to transmit calls (R key or Signal key). To adapt the telecommunications system to the different flash times of the telephones you can program the flash time range for your analog extension in the sys- tem. You will find the flash time of your telephone in the telephone's technical specifica- tions.







To test whether the set flash time is correct:

- Set up an external call.
- Press the Flash key.
- If you hear the internal dial tone the time is correctly set.
- If the connection is cut the flash time is programmed too short in the system.

Start programming mode with:  \*  7  7  6  

 \*         
Lift receiver      Flash time      Flash time range:      Confirmation      Replace  
tone      receiver

2	= 50 to 200 ms
3	= 50 to 300 ms
4	= 50 to 400 ms
5	= 50 to 500 ms
6	= 50 to 600 ms

Continue programming or end programming:  \*  3  6  3  
















# Programming



## Setting Music on Hold

Define whether a caller shall hear Music on hold when you make an enquiry call or forward a call.







**As delivered state:** Internal Music on Hold on

Start programming mode with:  \*  7  7  6  

 \*     off  

  on

Lift receiver                      Music On Hold                      Confirmation tone                      Replace receiver








Continue programming or end programming:  \*  3  6  3  



## Sending "0"

Terminals which support the CLIP function (phone number display) may have a call list. This allows simple dialling of unanswered calls. If you have switched off the external seizure "spontaneous with internal" on this terminal, you have to switch on the "send zero" function.

**As-delivered state:** Sending "0" – off

Start programming mode with:  \*  7  7  6  

 \*     off  

  on

Lift receiver                      Sending "0"                      Confirmation tone                      replace receiver

Continue programming or end programming :  \*  3  6  3  

# Programming

## Protecting your system against unauthorised access (PIN numbers)







The Use of PIN numbers will secure the system from unauthorized access. PIN numbers can be set for the following sections:


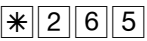

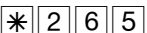





**System PIN** - or main programming PIN. In default every user may program the system. You can deny this access by setting a four digit PIN number which has to be entered before the system can be programmed. In default this PIN has been preset to 2580 which is the middle row of the telephone keypad from top to bottom, however this PIN is disabled in the default setting.

**Charge PIN** - in the default setting every user can display and delete the call meters. This use can be restricted and call meters can only be cleared by entering a four digit code. In default the system is shipped with no PIN number set.

**Service PIN** - or Remote Maintenance. This PIN will give access for the system to be programmed remotely. If this PIN is set then the maintainer can gain access to your system regardless of the origination of the call and you do not have to enter his telephone number. The condition is that you must have released the system for remote maintenance.

## Set System PIN

Start Programming mode with:  \*     


	 off			
	 On			
		 Standard PIN (2580)		
	 Enter new PIN			
Lift receiver	System PIN	Enter new PIN (4 digits)	Confirmation tone	replace receiver

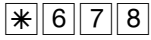
Continue programming or end programming:  \*     


# Programming

## Enter your STD Code

Enter your STD code. This saves you having to enter the code for phone numbers in the phonebook of your local network. The code is automatically prefixed to the transmitted phone number.

Start programming mode with:  \*     



 Enter



Lift receiver




STD Code

Enter STD Code

Confirmation tone

Replace receiver

 Delete

Continue programming or end programming:  \*     

# Programming

## Downloading new Firmware

The AGFEO ISDN Telephone System can be upgraded to the latest software version, without the need to change any hardware. New software can be loaded into the telephone system using a PC connected via the USB or V.24 interface. New software may also be loaded remotely by your dealer via the ISDN telephone line.

## Save configuration data

- Start the "TK-Suite" configuration program on your PC
- Read out all data of the system.
- Save the data on the hard disk or on a diskette.

## Update your software

- Unpack the Firmware Update Files into the "Updates" subdirectory of the TK-Soft directory on your hard disk (eg. "C:\TKSoft\updates").
- Start the "TK-Flash" update program  
Refer to the online help for details of how to operate "TK-Flash".  
The new software is now loaded into the telecommunications system. You cannot make any telephone calls during the load operation (approximately 5 minutes). You can observe the load process on the PC's monitor.
- End "TK-Flash".
- Clear the telecommunications system's memory from the a telephone (reset to delivery settings, P - 4)

## Loading the telecommunication systems system data

Copy the stored system data back from the PC into the telecommunications system. The telecommunications system now operates with the new software.

# Programming

## SMS from Fixed lines




It is possible that every extension can receive SMS messages. \* These ports can receive SMS messages if a SMS capable extension or PC (AC12 USB only), which is switched on with the required software is connected to them. This ensures that no telephones will ring if a SMS message is received.

\* Availability depends on Network Provider

















## Notes




You can only allocate one extension for each MSN!  
The send and receive MSN for a SMS port must be identical.








## Enable Extension to Receive SMS

Start programmin mode with:     






	   	 Enter	  		
Lift receiver	Select SMS Application	 Delete	  		
		Enter MSN on which a message should be received or deleted		Confirmation tone	If you selected "Delete" then you may replace the receiver now

 	
Enter the Telephone Number which should receive messages for earlier entered MSN	Replace receiver

Continue Programming or end Programming:       

# Programming


## Set Number of SMS Central

Start programming mode with:  \*   



\* 7 6 7

3 Enter

7  #

5 Delete

7







Lift receiver

SMS-Functions

Press "7" if you have chosen "Enter" then Enter the number of an SMS Central now.

Confirmation tone

Replace receiver

Continue programming or end programming:  \*     

# Communication via PC

## Software Overview

The enclosed CD-ROM contains the following software: TK-Suite Basic or TK-Suite Configuration Tool and the TAPI and USB drivers. There are also the NDISWAN Drivers for your system. To be friendly to our environment we have not included printed version of the individual programs as help will be available in each program by just clicking on the question mark.

## System Requirements

Following system features are required for the installation of the enclosed software

- IBM or compatible PC with hard disc and CD-ROM drive
- Pentium II with a processor speed of 233 MHz or higher
- 64 MB of available hard disc space
- Microsoft Windows 2000/ME/XP

Should you like to run TK-Suite with several clients then we would like to suggest to use Windows 2000 or XP as platform of your server installation.

## TK-Suite Server

**TK-Suite Server** contains the following components, TK-Suite Set, TK-Suite Bill and TK-Suite contact. TK-Server is a program which runs in the background under Windows ME and as a service under Windows 2000/XP. This means that you do not work directly with the program but with the TK-Suite-Client and an Internet Browser application.

# Communication via PC

## TK-Suite Set



You can program the telephone system from your PC with **TK-Suite Set**. Call forwarding, ringing rhythms, day/night service and all ISDN parameters can be set quick and easy. With **TK-Suite** set you can save the telephone system configuration on your hard disc. If required you can send this back up data back to the telephone system. (see Chapter "Programming of the Telephone System")

With the **LCR** component of TK-Suite Set you will be able to reduce call cost of your telephone system, provided your LCR table is kept up do date, by using the most cost effective service provider. Should this line be busy, then the automatic fallback function of the system will automatically select the next alternative service provider. A individual routing table can be created at any time to ensure cost effective phone calls. Should you like to take advantage to use a provider on a "call by call" \* selection, without being registered to this or having an account, then this is also no problem. Up to eight providers with their dialling codes can be selected in a weekend profile. In addition you can select up to eight tariff tables.

\*Network dependent

## TK-Suite Bill



**TK-Suite Bill** is for the analysis of your call data. If your service provider should forward call charge information, then the software will record all call charges. TK-Bill will sort and calculate per extension, date, telephone number or customer. In addition a sort of all calls per providers is also available. TK-Bill will not only record calls cause a charge, but also records incoming calls.

## TK-Suite Contact



**TK-Suite Contact** is your personal telephone and address book with multi user functionality. It is possible to import the phone book data of the telephone system into TK-Suite Contact. It works closely together with TK-Suite Client to give you a fully functional CTI working environment.

## TK-Suite Client



**TK-Suite Client** serves to integrate all TK-Suite components in your desktop so that it is possible to access each tool per mouse click. In addition TK-Suite Client offers you a fully functional CTI workplace with the ability to call telephone numbers from TK-Suite Contact, display incoming calls and reminders with the resubmission function.

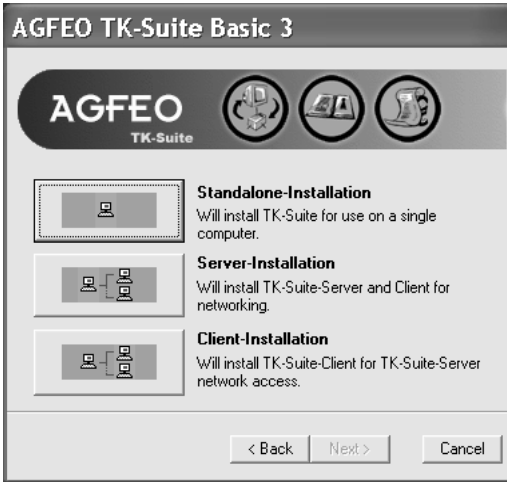


# Communication via PC

## Install TK-Suite

Start the installation routine of TK-Suite.

After you selected the installation folder and start up group, you will be asked from the TK-Suite Basic installation routine if the application should be installed as Single Work Station, Server – or Client version.

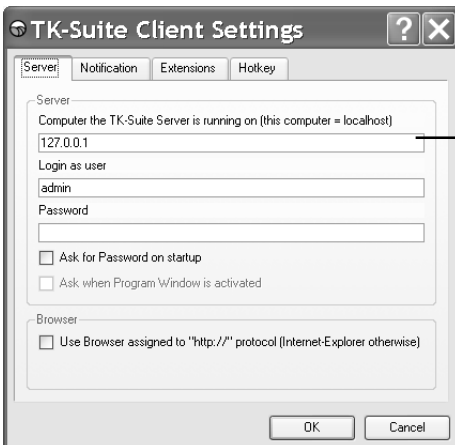


Select **Standalone**-Installation if you would like to use the Telephone System with one PC only.

Select **Server** if you would like to use the Telephone System with more than one PC.

Select **Client** if you would like to use the Telephone System with more than one PC and have already installed the Server Version to which you have access.

Please ensure that the User Setting has already been prepared on the Server for the Client.

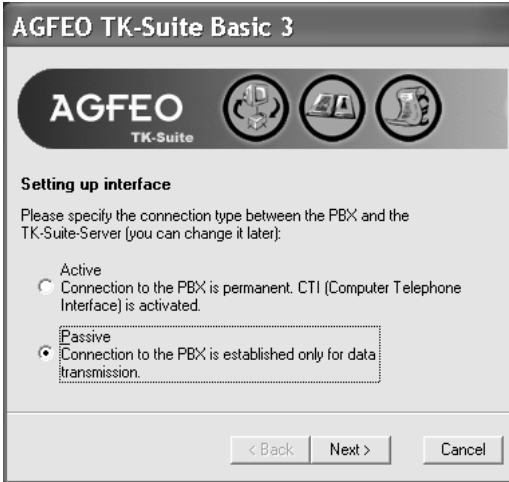


You will be asked for the Server Name, User Name and Password if you install TK-Suite Client to access TK-Suite Server on the network. Name and Password should have been allocated before in the TK-Suite Server version.

# Communication via PC

## Install TK-Suite

You select between an active an passive connection on installing TK-Suite Basic.



### ACTIVE:

The connection to the Telephone System is permanent and the port to which the computer is connected is constantly in use and not available for any other application. A sensible choice for a Server or Single User if the CTI application should be used constantly.

### PASSIVE:

The connection to the telephone system will only be established on programming or transfer of call charge data. The port may be used by other applications when not in use. CTI is **not** possible with this setting.

## The AC 141 WebPhonie plus supports passive connection only!

Afterwards you may select the type of connection to the system:



- Com1 or Com 2 if you want to communicate via the serial port with the system.
- Internal SO/USB Capi 2.0 if you want to communicate via the USB or ISDN connection. This type of connection does not support CTI and will not be offered if you have selected "Active" before hand.
- X31 if you want to communicate with the system via the internal SO or USB connection and not to engage a speech channel of the internal SO of the system.

# Communication via PC

## WAN Miniport

**WAN Miniport** is a driver for Windows ME/2000/XP, in which you can use the dial up network via ISDN. In addition you are able to connect to the Internet and (via the Remote Access Service) connect computers with each other. Further information regarding the Dial Up Network can be found in the Windows documentation.

## Establish a USB Connection (AC 14 WebPhonie/AC 16 WebPhonie)

You may connect the telephone system with a PC or Notebook via the USB connection.  
(Not supported with Windows NT 4.0)

1. Take the supplied USB Cable. You will identify this on the USB Symbol on the plug.
2. Plug in the square plug of the USB cable into the USB socket of the telephone system
3. Plug in the flat plug of the USB cable in one of the USB connections of your computer
4. Switch on your computer

On start-up of Windows with the telephone system, you will be requested to enter the location of the driver. More to this is in the chapter "Installation of Drivers"

# Communication via PC

## Driver Installation

**IMPORTANT!** Should you have already an ISDN card installed in your computer, then this and the associated driver must be first deinstalled. Please follow the instruction of the individual manufacturer for this. It may be that during the installation you will be asked to insert the CD of the operating system. Therefore it will be advisable to have this CD to hand. Before you can install the driver you must connect the telephone system to your computer via the USB connection.

1. Once the PC has identified the connected telephone system, the hardware assistant will be displayed. The hardware assistant will install the software for the new Hardware components (AC 14 WebPhonie/ AC 16 WebPhonie). Click on "next"
2. In the following dialog window select find "suitable driver" for hardware (recommended).
3. Enable the option "CD-ROM Drive" and de-select all other check boxes. Insert the CD "Communications Software" with the USB Drivers in the CD-ROM drive and click on "next".
4. After the driver has been found click on next to start the installation.
5. Drivers being installed
6. Under ISDN Configuration please read the notification and click on "next".
7. Select the D Channel Protocol: "DSS1: Euro-ISDN" and click on "next".
8. Now you will be asked to enter the telephone number(s). Enter the extension number(s) of the PC connected to the USB port. All internal extension numbers will be available. (see also programming of system, port allocation) Click on "next".
9. The ISDN-configuration is completed. Click on "Finish"
10. Insert the Operating System CD if asked to do so, to install the USB support. After the software has been installed click on "finish".
11. Restart your computer to complete the installation.

### **If you want to change the extension number of the PC on the USB port afterwards:**

Select "Start → Programs → Accessories → Communication → Assistant for the ISDN Configuration.

1. Under ISDN configuration read the notification and click on next.
2. Select the D Channel Protocol : DSS1 : Euro-ISDN and click on next
3. You will now be asked to enter the extension number(s). Enter the extension number of the PC on the USB port. Extension numbers from 20 to 29 may be selected. (see also system programming port allocation) click on next
- 4 The ISDN Configuration is completed, click on finish
- 5 To complete the installation, please restart your PC.

# Communication via PC

## Deinstallation of Drivers

Should you now longer require the drivers, then you may deinstall these.  
Remove the AC 14 WebPhonie / AC 16 WebPhonie in Control Panel. (Start/Control Panel/Add-Remove Programs)

## Connecting to the Internet or another Network (AC 14 WebPhonie / AC 16 WebPhonie)

Here you will find notes how to connect with the Microsoft Dial Up Network to the Internet or other Networks.

1. Open (Double Click) on the symbol "My Computer" on your desktop.
2. Open (Double Click) on the symbol "Dial Up Networking"  
The Dial Up Network is automatically installed with Windows 98 standard installation. Should the Dial Up Network not be available within "My Computer" then you may add this component by selecting "Start → Settings → Software" . You will find information within Windows Help, Topic "Software"
3. If this is for your first connection, click next, otherwise double-click on "make new connection"
4. Enter in the assistant the name of this connection, i.e. your provider.
5. In "Select a device:" select "AGFWMP-Line 1" and click on next
6. Enter in the field "Telephone Number" the ISDN number to connect to your Internet Provider or remote Network and click on next.
7. Click on finish. An Icon will appear for this connection.

## Configure a Connection

- 1 If the "Dial Up Network" is not opened: Double click on "My Computer" as displayed on your desktop. Open the "Dial up Network".
- 2 Open the dialog window in which you can configure the connection. Right click on the symbol of the earlier added connection and select "Properties".
- 3 Select the tab "Server Types". Complete the following steps:
  - if you set up a connection to the internet, deactivate "Log on to network"
  - activate "enable software compression"
  - for Internet connections activate the "Allowed network protocols" to "TCP/IP".

# Communication via PC

## Connecting to the Internet or other Network (AC 14 WebPhonie / AC 16 WebPhonie)

After you have established the setting for your Internet provider or other network as described, you now can dial into it. If you want to surf the net or call off e-mail messages, then you must have installed a Web-Browser or an e-mail application.

Follow the following steps to establish a connection:

- 1 Open (double click) on "My Computer" on your displayed on your desktop
- 2 Open (double click) the icon "Dial-Up Networking"
- 3 Open (double click) the earlier new set up connection
- 4 In the dialog window "Connect To" do the following:  
Enter the "User Name" and "Password" as supplied to you by your Internet provider and click on connect. As soon as the connection is established a dialog window will open with the message "Connection Established"
- 5 You now can surf the Internet with the Web-Browser or call off your e-mails with an e-mail application.

## Disconnect the line

To disconnect an established connection, click on "Disconnect" in the dialog window of "Connection Established", or double click the dial-up icon in the status area of the taskbar.

# Appendix

## Glossary

### Answering station - VST

The answering station controls your ISDN connection. You can use some functions such as the ISDN call forwarding or the ISDN-hold via the answering station with the ISDN features.

### Appointment - wake-up

The system telephones remind you of a fixed appointment (date/time) with the appointment call and flashing LED. With a wake-up call the system telephones wake you every day at a fixed time.

### Automatic dialling

When this feature is activated, your telephone system automatically calls the previously entered number when you lift the handset and do not press any other key for 10 seconds. The number is dialled up to 12 times at one minute intervals until a connection is made.

### Busy On Busy

This feature of the telecommunications system causes the whole line to be busy when a subscriber is holding a conversation from a call variant/call distribution. Unlike camp on protection, this function works for a complete phone number (MSN) not just for one subscriber.

### Call by call

With the call by call feature you can select a desired network provider for a long distance call. You have to set up a call by call function key.

### Call diversion - diversion to

All incoming calls can be diverted to a specific external or internal destination telephone. Unlike call forwarding (ISDN) in which there is no connection to your ISDN telecommunications system, the call diversion to the external subscriber uses a second B-channel to reach the desired destination. This may even save money because the Least Cost Router can be used to make the connection. Two B-channels are occupied during the all diversion.

# Appendix

## Call forwarding - ISDN call forwarding

With this ISDN service feature, calls for your ISDN connection can be forwarded worldwide to any other connection. You enter the destination number in your ISDN telecommunications system and activate the call forwarding in your public exchange. The exchange then re-routes all calls without the telecommunications system noticing (see call diversion). With call forwarding on the system connection you always forward the whole connection. On a multipoint connection you can divert every phone number (MSN) individually to a respective different destination. Call forwarding is possible in the variations permanent, when no answer and when busy. The call forwarding feature can only be used by special agreement with your network provider.

## Call variant

The internal phone numbers of the terminal that are rung in the event of an external call are defined in a call variant. Different call variants can be defined for the day or the night service. Call variant 1 (day time service) and call variant 2 (night service) can be switched over at any time from any telephone.

## Camp on protection - reject camp on

Camp on tones during a telephone call signal that another subscriber is calling. The first caller can be held in the line while you ask the second caller what he wants. This means no calls are missed. Anyone who considers this as a disturbance can switch it off with the camp on protection. The second caller either gets the busy tone or lands on an answering machine for example.

## Code numbers

Every connected telephone can be protected against unauthorised access by a 4-digit code (telephone lock) so that with the exception of direct numbers, emergency numbers and automatic dialling only internal numbers can be dialled. No code numbers are entered ex-factory.

## Dialling line (B-channel/S0 basic access)

You can connect an external S0 basic access to your ISDN telecommunications system. Every external S0 basic connection behaves like two conventional analogue dialling lines. You therefore have two dialling lines (B-channels) on which you can make external calls (local, long distance or international).



# Appendix

## Timer

The telecommunications system provides 10 timers. The telecommunications system switches functions on and off at certain times on certain days of the week with these timers. The following functions can be controlled with timers:

Answering machines

Do not disturb

Call variants 1/2/3

Call variant door

Busy on busy

Relays

Subscriber class of service

Telephone lock

Diversion

You can assign a function to every timer. The timers can only be programmed with the TK-Set program. The timer control can be switched on and off from every telephone.

## Transfer

With the Transfer function you have the option of transferring an external call to an external subscriber. Two dialling lines (two B-channels) are occupied.

Your subscriber connection is charged for the external connection you set up. You can set up the Transfer function key on the system telephone, on the analogue telephone you use the code number procedure.

# Appendix

## What to do in the event of malfunctions Checks

- In the event of malfunctions on the telephone system, please check your operating actions by referring to the instruction manual.
- Check whether the connectors of terminals and of the telephone system are inserted correctly.
- If you cannot remedy a malfunction, your dealer will be please to help you.

## Deactivating the special dial tone

When you lift the receiver on your standard telephone, you hear the special dial tone. You hear the special dial tone when do not disturb, automatic dialling or a diversion is active. You can deactivate all functions that result in a special dial tone by entering a code.



\* 7 6 6



Lift receiver

Deactivate the special dial tone

Confirmation tone

Replace receiver

## Power Failure

- If the power should fail, you can make neither external nor internal telephone calls.

When the power returns:

- The telephone system functions again according to the previously set program. All settings made via the programming mode or the PC program remain stored provided the programming mode was ended appropriately.
- Initiated return calls are cleared.
- Connections parked in the telephone system are cleared.
- The redial entries are cleared.
- The total connection charges and the connection records are deleted.

# Appendix

## What to do in the event of malfunctions

<b><u>Malfunction</u></b>	<b><u>Possible causes</u></b>	<b><u>Remedy</u></b>
Telephone system programming unclear		Reset the telephone system  Reset the telephone system to the „as-delivered“ settings and reprogram it
No dial tone after lifting handset	Power failure  Terminal defective  Incorrect installation	Check mains connection/fuses  Check terminal on another connection  Check connections at the connection socket and on the telephone system
No internal calls arrive	Do not disturb (special dial tone)  Diversion to another telephone (internal/external) (special dial tone)	Turn off do not disturb  Turn off diversion to
No external calls arrive	Do not disturb (special dial tone)  Diversion to another telephone (internal/external) (special dial tone)  ISDN call forwarding is active  Point-to-point connection: System phone number missing  Point-to-multipoint connection: - MSN missing - MSN-internal user assignment missing	Turn off do not disturb  Turn off diversion to  Deactivate ISDN call forwarding  Enter the system phone number  Enter the MSN Assign the internal user to the MSN(ringing distribution)
Forwarding an external call (inquiry) is not possible	The inquiry key <b>[R]</b> on the telephone is set as an earth key  Wrong flash time	Set the telephone to DTMF and set the inquiry key to flash  Adjust flash time on the phone or on the respective port of the PBX.
Distorted speech connection	S0 bus incorrectly installed Connection error	Connect wire pairs correctly

# Appendix

## Resetting the telephone system

By resetting, you can restore the telephone system's programming to a defined state. This may be necessary if you wish to reset unclear settings or if you wish to reprogram the telephone system.

After a reset, the telephone system again operates according to the previously set program. All settings made in the programming mode or by means of the PC program are retained provided the programming mode has been ended properly.






Important: the following are cleared when you reset the telephone system. - All existing internal and external connections

- Remote support
- Internal return calls
- ISDN callback on busy
- Outside line reservations





Hardware reset - unplug the 230 V power mains plug and then plug it in again.

Software reset - carry out the following procedure:

### Software - Reset

Start programming mode with:     



Lift receiver



Replace receiver

# Appendix

## Ring Rhythms

### External ring

All ringer rhythms for incoming calls begin with an initial 500 ms pulse, followed by a 2 second pause. This is a technical requirement to allow caller identification (Calling Line Identification Presentation - CLIP). Thereafter the ring can be programmed differently to distinguish between calls to different extension numbers in the system (see diagram)

Standard Ring



Code ring 1



Code ring 2



Code ring 3



Code ring 4



### Internal Call



### Outside line reservation



**Key:**



Call Break Continue

Ringing may differ depending on the terminal used.

# Appendix

## Tones

Dial tone  
- internal



- external



Ringing tone  
- internal



- external



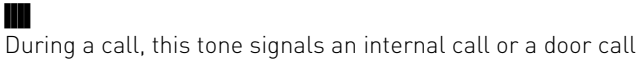
Busy tone



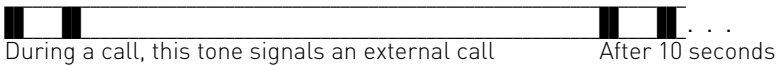
Special dial tone



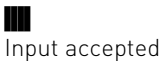
Call waiting  
- internal / door



- external



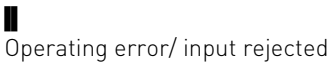
Acknowledgement tone



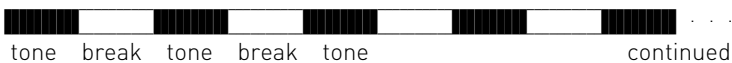
Error tone  
- a/b -Telephone



- System-telephone



Key:



# Appendix

## Technical Data

Measurements	21,5 x 4,6 x 15,4 ((Hight x Depth x Width)in cm
Ambient temperature	
- Operation/Storage	5 °C to 40 °C / -25 °C to +70 °C
Humidity	max. 70% (none condensing)
Mains Connection	230 VAC, +10% / -10%, 50 Hz
-- Power Consumption	In = 40 mA (9VA)
- Length of Power cord	2 m
- Powerpack	TST 544 590
External S0 Connection	PTP or PTMP connections
- Connection	Euro ISDN 2e via RJ 45 Socket and enclosed connection cable
- Length IAE-Cable	1,5 m
Analogue Apparatus	
AC 14 / AC 14 WebPhonie	max. 4 (Telephone, TAM, Fax, Modem)
- Connection	2 wire via spring loaded connectors or TAE connectors
AC 16 WebPhonie	max. 6 (Telephone, TAM, Fax, Modem), extension 3 and 4 via TAE connectors only, extensions 5 and 6 via spring loaded connectors only, extensions 1 and 2 via spring loaded connectors or TAE connectors
- Distance	2 x 50 Ohm (ø 0,6 mm, 1.500 m)
- Dial Method	DTMF or LD
- Enquiry Button	Flash (50 bis 600 ms), Times are adjustable
USB-Interface	Universal Serial Bus (AC 14 WebPhonie / AC 16 WebPhonie only)
- Length USB-Cable	3 m





# Index

## Index

### A

Accepting Incoming Calls ..... U - 3  
Answering station - VST ..... A - 1  
Appointment - wake-up ..... A - 1  
Auto Dialling (Hotline) ..... U - 7  
Automatic Call Back ..... U - 15  
Automatic dialling ..... A - 1

### B

Baby Listening / Room Monitor ..... U - 13  
Busy On Busy ..... A - 1  
Busy on Busy ..... U - 8

### C

Call by call ..... A - 1  
Call diversion - diversion to ..... A - 1  
Call forwarding - ISDN call forwarding A - 2  
Call Pick Up ..... U - 9  
Call Transfer ..... U - 5  
Call variant ..... A - 2  
Call waiting ..... U - 3  
Camp on protection - reject camp on .. A - 2  
Cancelling room monitoring ..... U - 13  
Code numbers ..... A - 2  
Connecting to the Internet or another  
Network ..... PC - 7

### D

Deactivating the special dial tone ..... A - 4  
Dialling line (B-channel/S0 basic access)  
..... A - 2  
Diversion from ..... U - 9  
Diversion to ..... U - 21  
Do Not Disturb ..... U - 15  
Driver Installation ..... PC - 6

### E

Enable Extension to Receive SMS ..... P - 19  
Enquiry ..... U - 14  
Establish a USB Connection ..... PC - 5  
External Acces with specific MSN ..... U - 2  
External Transfer ..... U - 6

### G

Glossary ..... A - 1

### I

Important notes on using analogue ....  
equipment ..... E - 5  
Install TK-Suite ..... PC - 3  
Internal Transfer ..... U - 5

### L

Least Cost Routing (LCR) ..... U - 11

### M

Malicious Call Identification (MCID) ..... U - 8

### P

Parking a Call ..... U - 12  
Pictograms and Buttons ..... E - 6  
Power Failure ..... A - 4

### R

Remote setting - Remote configuration  
..... P - 2  
Reserving an outside line ..... U - 2  
Rhythmus ..... P - 7

### S

Sending CLIP or COLP ..... U - 19  
Setting External Seizure ..... U - 1  
SMS from Fixed lines ..... P - 19  
Set Number of SMS Central ..... P - 20  
Software - Reset ..... A - 6  
Software Overview ..... PC - 1  
Switching between Day and Night Service  
..... U - 12  
System Requirements ..... PC - 1

### T

Telephone lock ..... U - 16  
Timer ..... U - 19, A - 3  
TK-Suite Set ..... PC - 2  
TK-Suite Bill ..... PC - 2  
TK-Suite Client ..... PC - 2  
TK-Suite Contact ..... PC - 2  
TK-Suite Server ..... PC - 1  
Tones ..... A - 8  
Transfer ..... A - 3

### W

WAN Miniport ..... PC - 5  
What to do in the event of malfunctions  
..... A - 5



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The AGFEO GmbH & Co. KG reserves the right to change representations and data in this documentation in the interests of technical progress without prior notice.

This documentation has been prepared with the utmost care and is revised regularly.

Despite all care, however, technical inaccuracies and typographical errors cannot be totally ruled out. All errors which become known to us will be corrected in new editions. We are gratefully for any hints at errors in this documentation.

You can only use the numerous ISDN features of your AGFEO ISDN telecommunications system if your network operator provides them.

### EU-Konformitätserklärung

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CE-Déclaration de Conformité

**Der Hersteller:** AGFEO GmbH & Co. KG

The Manufacturer:  
Le Constructeur:

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**Erklärt, dass das Produkt:** AC 14

Declares that the Product:  
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**Components:**

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**EN 55022/2003**  
**EN 55024/2003**

Bielefeld, 17. Februar 2005

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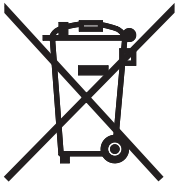
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