AUDIO DISTRIBUTION NETWORK

SENNHEISER ADN CUT

SENNHEISER ADN Instruction manual

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Important safety instructions

- 1. Read these instructions.
- 2. Keep these instructions. Always include these instructions when passing the apparatus on to third parties.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with a dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.



- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, when the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15. To completely disconnect this apparatus from the AC mains, disconnect the power supply cord plug from the AC receptacle.
- 16. WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- 17. Do not expose this equipment to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the equipment.
- 18. The mains plug of the power supply cord shall remain readily operable.

Hazard warnings on the rear of the central unit



The label shown on the left is attached to the rear of the central unit. The symbols on this label have the following meaning:

This symbol is intended to alert the user to the presence of uninsulated dangerous voltage within the central unit's enclosure that may be of sufficient magnitude to constitute risk of fire or electric shock.



This symbol is intended to alert the user to the risk of electric shock if the central unit is opened. There are no user serviceable parts inside. Refer servicing to qualified personnel only.

This symbol is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying this product.

Overloading

Do not overload wall outlets and extension cords as this may result in fire and electric shock.

Safety check

Upon completion of any service or repairs to this device, ask the service technician to perform safety checks to determine that the device is in safe operating order.

Danger of hearing damage due to high volumes

When the conference participants listen to the floor channel via headphones, they can adjust the volume themselves. In doing so, sound pressure exceeding 85 dB(A) can be produced. 85 dB(A) is the sound pressure corresponding to the maximum permissible volume which is by law (in some countries) allowed to affect your hearing for the duration of a working day. It is used as a basis according to the specifications of industrial medicine. Higher volumes or longer durations can damage your hearing. At higher volumes, the duration must be shortened in order to prevent hearing damage. The following are sure signs that you have been subjected to excessive noise for too long a time:

- You can hear ringing or whistling sounds in your ears.
- You have the impression (even for a short time only) that you can no longer hear high notes.

Inform the conference participants about these facts and, if necessary, ask them to set the volume to a medium level.

Intended use

Intended use of the products includes:

- having read this instruction manual, especially the chapter "Important safety instructions",
- using the products within the operating conditions and limitations described in this instruction manual.

"Improper use" means using the products other than as described in this instruction manual, or under operating conditions which differ from those described herein.

The Sennheiser ADN conference system

Sennheiser ADN stands for Sennheiser Audio Distribution Network – the new generation of digital conference equipment:

- Ideal for small to medium size conferences with approx. 30 participants
- High-quality audio signal due quality microphone and built-in loudspeakers
- Attractive design fits into modern or traditional style conference rooms
- Guaranteed operational reliability due to state-of-the-art transmission technology
- Can be adapted quickly and easily to different room sizes and participant numbers
- Intuitive configuration and control of the conference system via the operating menu or the integrated software package

Available system components – scope of delivery

	The following ADN system components are available:
Central unit (Cat. No.: 502757)	 ADN CU1 central unit quick guide CD ROM (including, among other things, the "Conference Manager" software (Windows) and the instruction manual for the overall conference system as PDF)
Mains cable for central unit	available in EU, UK and US versions, length 1.8 m (see "Accessories" on page 108)
Delegate unit (Cat. No.: 502758)	 ADN D1 delegate unit quick guide
Chairman unit (Cat. No.: 502759)	 ADN C1 chairman unit quick guide
System cable	SDC CBL RJ-45, available in different lengths (see "Accessories" on page 108)

Overview of the components

For conferencing, you require:

- 1 ADN CU1 central unit
- ADN D1 delegate units
- ADN C1 chairman units (optional, for granting speaking privileges)
- SDC CBL RJ-45 system cables (available in different lengths)
- "Conference Manager" software for configuring and controlling conferences (optional)
 - can be run on the central unit (a screen, keyboard, and mouse are required) or
 - can be run on a separate Windows PC with Ethernet connection









ADN CU1 central unit



Overview of the ADN CU1 display panel

After switch-on, the central unit's display shows a progress bar for approx. 30 seconds and then the standard display:



Tex	kt/icon	Possible display/function
17	Conference mode	Current conference mode: "Direct Access", "Override", "Request"
(18)	Floor channel volume	Current volume setting for the conference units' built-in loudspeakers
(19)	Number of conference units	Number of connected conference units
20	Connection status	$\dot{\mbox{ \ or }}$: "Conference Manager" software is not connected to the central unit
		: "Conference Manager" software is connected to the central unit
21	Structural change icon	lcon appears if, since the last initialization, a malfunction/change has occurred in the wiring of the conference units (see page 34)
22	Cable fault icon	Icon appears if conference units are not correctly connected (see page 34)
23	Short-circuit icon	lcon appears if there is a short circuit in the wiring of the conference units (see page 34). The display panel lights up red.
24	Warning triangle	lcon appears if there is a malfunction/change (see page 34). The display panel lights up red.
25	Lock mode icon	Lock mode of the central unit:
	(see page 21)	🕞 Lock mode is deactivated
		G : Lock mode is activated

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The "Conference Manager" software

The "Conference Manager" software allows you to conveniently configure and control the entire conference via a Windows PC or directly via the central unit.

For further information on the software, refer to the chapter "Using the "Conference Manager" software" on page 49.

The SDC CBL RJ-45 system cables

The system cables transmit the digital audio and status information and supply power to the conference units.



- Shielded RJ 45 modular plug, cat 5(e)
- ② Gray cable booth with clip protector
- Round STP cable, cat 5(e), 24 AWG, black
- 29 Black cable booth with clip protector

Structuring and controlling the conference system

Structuring the conference system

The ADN conference system is suitable for small to medium size conferences with approx. 30 conference units (divided up onto the two connection sockets PORT I and PORT II). Delegate units and chairman units can be combined in an arbitrary order and are connected to the central unit using SDC CBL RJ-45 system cables. The ends of the cable strings are open (no ring topology). The maximum number of conference units that can be used depends on the voltage supply which in turn is influenced by the cable lengths (see next chapter).



In addition, you can connect audio devices to the central unit in order to e.g. feed audio signals to the floor channel or to output the floor channel via an external audio device.

Calculating the voltage drop on the system cables

For safe operation of the conference system, make sure that all conference units are supplied with a voltage of at least 35 V! The voltage supplied depends on the number of connected conference units and on the cable lengths. The standard cable length between the central unit and the first conference unit is 80 m max. and the standard cable length between the conference units is 2-5 m. If these cable lengths are observed, safe operation of a conference system with 30 conference units is ensured. If cable lengths are shorter, it might be that more conference units can be used.

The "ADN Cable Calculator" program allows you to calculate the voltage drops on the individual sections of a cable string and to plan the structure of the conference system. The program is available from your Sennheiser partner or from the download area on our website at www.sennheiser.com.

To use the "ADN Cable Calculator" program:

Start the "ADN Cable Calculator.exe" file and follow the instructions of the program.

For further information and for how to calculate the voltage drop of a cable string, refer to the help of the "ADN Cable Calculator" program.

Configuring and controlling the conference system

For configuring the conference system, you can either use the operating menu of the central unit or the "Conference Manager" software. The software also allows you to control conferences via a graphical interface:

Function	Operating menu	"Conference Manager" software
Configuring the conference	\checkmark	\checkmark
Controlling the conference via a graphical interface	X	\checkmark

The "Conference Manager" software can be run in two different ways:

- a) As a program on the central unit's built-in PC.
 - You have to connect a screen, keyboard, and mouse to the central unit (see page 50).
- b) As a program on a Windows PC.
 - You have to install the "Conference Manager" software on the PC and integrate the PC together with the central unit in a network (see page 50).



Putting the conference system into operation

Preparing the central unit for use

Setting up the central unit on a flat surface or mounting it into a rack

If you want to place the central unit on a flat surface:

- Make sure that the air vents are not covered or blocked.
- Place the central unit on a flat surface as shown.



If you want to mount the central unit into a 19" rack, the central unit must be supported and fixed to the rack using additional components.



Danger of material damage and personal injury when rack mounting the central unit!

When installing the product in a closed or multi-rack assembly, please consider that, during operation,

- the ambient temperature within the rack may drastically increase,
- high mechanical loading may occur,
- intrinsically harmless leakage currents of the individual mains units may accumulate, thereby exceeding the allowable limit value.

This can cause material damage and electric shocks.

- Always mount the central unit using a suitable rack tray. Make sure that the mechanical loading of the rack is even.
- Make sure that the ambient temperature within the rack does not exceed the permissible temperature limit specified in the specifications (see page 109). Ensure sufficient ventilation; if necessary, provide additional ventilation.
- When connecting to the power supply, observe the information indicated on the type plate. Avoid circuit overloading. If necessary, provide overcurrent protection.
- Ground the rack via an additional ground connection.
- Unscrew and remove the 2 torx screws (T25) on each side of the central unit (see left-hand diagram).
- Secure the optional rack mount "ears" ③ (see "Accessories" on page 108) to the sides of the central unit using the previously removed torx screws (see right-hand diagram).



Fastening the optional rack mount "ears"

- Slide the central unit with the mounted rack mount "ears" into the 19" rack and support the weight with e.g. a rack tray.
- Secure the rack mount "ears" to the rack.



An engineering drawing detailing the dimensions of the central unit can be found in the appendix (see page 111).

Connecting the central unit to the mains

CAUTION Product damage due to unsuitable mains cables or power outlets! An unsuitable power supply can damage the product.

- Only use the recommended mains cable (see "Accessories" on page 108) for connecting the product to the mains.
- Only use multi-outlet power strips or extension cables with protective ground contacts.
- > Only use mains cables with a 3-pin connector.
- First connect the mains cable to the mains socket 4.
- Connect the mains cable to the mains.
 The central unit is now ready for operation.



Preparing the conference units for use

The conference units are ready for operation upon delivery. The conference system automatically recognizes if the connected conference units are chairman units or delegate units and initializes them automatically.



If you connect chairman units to the conference system during a running conference, you have to re-initialize them (see page 30 or page 88).

Setting up the conference system

Installing the cable holder

If you want to permanently install your conference system in a room, use the optional cable holders (see "Accessories" on page 108).



- > Tilt the conference units as shown.
- Hold the conference units with one hand so that the microphone does not rest on the table.



Insert the cable holder 😢 as shown. At this point, the cable holder 🕲 is not yet fixed with screws. You first have to connect the conference units as described in the following chapter.

Connecting the conference units to the central unit

You can connect up to 15 conference units to each of the central unit's connection sockets PORT II (a) or PORT I (a). The maximum number of conference units that can be used in one cable string depends on the overall cable length connected to a port (see page 13).

The following describes the procedure for one cable string. If necessary, repeat these steps for a second cable string.

- Place the conference units at the corresponding seats.
- Put out a sufficient number of system cables in the required lengths (see "Accessories" on page 108).
- If necessary, calculate the maximum length of the cable string in order to ensure that all conference units connected in the string are supplied with a voltage of at least 35 V (see page 13).



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If you are using cable holders (see previous chapter):

Choose a suitable cover ¹³ for the cable holder ¹²:



Cable	Cable holder cover
SDC CBL RJ 45 system cable	marked "M"
Highly shielded cable	marked "L"
	13 N OUT

- Affix the covers (3) as shown.
- Slightly tighten the supplied screws (4) (approx. 0.05 Nm).

To connect the conference units to the central unit:

- CAUTION Product damage due to an unsuitable power supply!
 - An unsuitable power supply can damage network devices with RJ 45 plugs that are connected to the connection sockets PORT I and PORT II.
 - Only connect ADN C1 and ADN D1 conference units to the connection sockets PORT | and PORT II.



- Use a system cable to connect the IN socket 0 of the first conference unit to the PORT II socket (8) or PORT I socket (9) of the central unit (see above).
- Use a system cable to connect the OUT socket (1) of the first conference unit to the IN socket (1) of the second conference unit.
- Repeat these steps for the remaining conference units.



Please note that there is a limited number of approx. 15 conference units per cable string due to the voltage drop on the cable string (see page 13).

Connecting external audio devices to the central unit

To output the floor channel via an external audio device:

Use an XLR cable to connect the OUT audio output ⑦ of the central unit to an external audio device.

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To connect an external audio source and to feed its signals to the floor channel:

Use an XLR cable to connect the external audio source to the IN audio input 6of the central unit.

Preparing to use the "Conference Manager" software

Running the software installed on the central unit To use the "Conference Manager" software installed on the central unit, you require the following devices:

Device	Requirements	
Screen	Connection: Resolution: Recommended:	15-pin Sub-D VGA 800 x 600 pixels or higher 1024 x 768 or 1280 x 1024 pixels
Mouse	Standard USB for	Windows PCs
Keyboard	Standard USB for Windows PCs Supported language layouts: e.g. English, German, French, Spanish, Italian, Russian, Dutch (for the complete list, see "Keyboard layouts" on page 112)	

▶ Use a Sub-D VGA cable to connect a screen to the VGA monitor output 🔘 🔞.



- Connect the keyboard and the mouse to the two USB sockets $\leftarrow \oplus (1)$.
- Configure the screen, keyboard and mouse settings using the "Conference Manager" software (see page 63). Your conference system is now ready for operation.

The USB sockets only support a keyboard and a mouse.

Running the software on a separate Windows PC



To run the "Conference Manager" software on a separate Windows PC, the PC must meet the system requirements listed on page 50.

 Use a network cable (Cat5) to connect the Ethernet socket (2) of the central unit to the network interface of your PC.

You can also connect the PC and the central unit using a switch or similar.



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- Install the "Conference Manager" software supplied on the CD ROM on your connected PC (see page 51).
- Configure the network as described in the chapter "Preparing the Windows version of the software for use" on page 50.

Switching the conference system on/off

The central unit switches on and its display panel lights up.

To switch the conference system on:

To switch the conference system off:

Set the on/off switch (1) to position "I".



If you have made changes to a configuration using the "Conference Manager" software, you have to save these changes before switching the central unit off (see page 69). All other settings of the central unit are automatically saved.

Set the on/off switch ① to position "0".
 The central unit is switched off completely.

Using the central unit

Deactivating the lock mode of the central unit

If the lock mode is activated (see page 43), you have to deactivate it in order to be able to operate the central unit:



Press the jog dial.
 The lock mode is deactivated.

Functions of the keys

Action	Functions
Press the ESC key	 Cancels the entry and returns to the next higher menu level or to the standard display
Press the jog dial	 Changes from the standard display to the operating menu Calls up a menu item Enters a submenu Stores the settings and returns to the operating menu
Turn the jog dial	 Increases or reduces the floor channel volume (when the standard display is shown) Changes to the next/previous menu item Changes the setting of a menu item
Press the standard display key	 Returns to the standard display

Configuring the conference system via the central unit



Overview of the operating menu

Display	Function of the menu item	Option/display	Page
"Main Menu"			
"Conference"	Calls up the "Conference" submenu	-	26
"Audio"	Calls up the "Audio" submenu	-	31
"System"	Calls up the "System" submenu	-	34
"Languages"	Adjusts the language	"Deutsch", "English", "Espanol"	41
"Settings"	Calls up the "Settings" submenu	-	

"Conference" menu

"Conference Mode"	Adjusts the conference mode	"Direct Access", "Override" or "Request"	26
"Microphone Limit"	Sets the maximum number of speakers who can take the floor simultaneously in "Direct Access" and "Override" mode	"1" "10"	27
"Request Limit"	Sets the maximum number of requests to speak in "Request" and "Direct Access" mode	"0"…"10"	28
"Talk Time Status"	Activates/deactivates the speaking time limit	"On"/"Off"	28
"Talk Time Limit"	Sets the speaking time limit	"01" "60" in steps of 1 minute	28
"Premonition Time Limit"	Sets the advance warning time (warns speakers that they are approaching the end of the individual speaking time)	"00" "120" in steps of 10 seconds	28
"Reaction on Talktime Exceed"	Determines the behavior when the individual speaking time is exceeded	"Continue"/"Cancel"	29
"Blink on Request"	Activates/deactivates the flashing of the signal light ring when a request to speak is made	"On"/"Off"	30
"Re-Init"	Re-initializes the conference units	"Yes"/"No"	30
"Clear Request List on Cancel"	Sets the function of the priority key 📩 of the chairman unit	"On"/"Off"	30

"Audio" menu

"XLR Out"	Calls up the "XLR Out" submenu	-	31
"XLR In"	Calls up the "XLR In" submenu	-	
"Floor/ Loudspeakers"	Calls up the "Floor/Loudspeakers" submenu	-	
"Audio Gain Reduction"	The sum signal of all active conference units is output via the floor channel ("Floor/Loudspeakers"). The "Audio Gain Reduction" menu item allows you to adjust how the volume levels of the signals of the individual conference units are processed.	"0.0 dB per Mic" "–3.0 dB per Mic", "Linear Division"	32

"XLR Out" menu

"XLR Out Status"	Activates/deactivates the OUT audio output	"On"/"Off"	31
"XLR Out Volume"	Adjusts the volume of the XLR output	*** "01" "32"	
"XLR Out Equalizer"	Adjusts the tone color of the XLR output	+02 dB -03 dB +05 dB "-12 dB" "+12 dB"	

Display	Function of the menu item	Option/display	Page
"XLR In" menu			
"XLR In Status"	Activates/deactivates the IN audio input	"On"/"Off"	31
"XLR In Sensitivity"	Adjusts the sensitivity of the XLR input	"-18.0 dBu" "+18.0 dBu"	
"XLR In Equalizer"	Adjusts the tone color of the XLR input	+02 dB -03 dB -03 dB +05 dB "-12 dB" "+12 dB"	

"Floor/Loudspeakers" menu

"Floor/ Loudspeakers Volume"	Adjusts the floor channel volume ("Floor/Loudspeakers")	↔ "00" "32"	32
"Floor/ Loudspeakers Equalizer"	Adjusts the tone color of the floor channel	+02 dB -03 dB +05 dB "-12 dB""+12 dB"	

"System" menu

"Ports"	Displays the type and number of the conference units connected to Port I and Port II	Port1: Port2:	Deleg xx xx	Chair. xx xx	Units Units	37
"Diagnostics"	Calls up the "Diagnostics" submenu		-	-		38
"Versions"	Calls up the "Versions" submenu		-	-		41

"Diagnostics" menu

"System Load"	Provides information on the current and voltage supply	CurrentVoltagePort1😳🙁Port2😳😇	38
"Temperature"	Provides information on the temperature status	Status 🙂	39
"Bus Statistics"	Provides information on the status of data transmission/ errors	Error Indication : 🙂 Break Count : 1	39
"Start Self-Test"	Performs a self-test on the conference system	"On"/"Off"	40
"Reset Break Indication"	Resets the error counter ("Break Count") in the "Bus Statistic" menu item	"Yes"/"No"	40
"Reset Error Indication"	Resets the display for data bus errors ("Error Indication") in the "Bus Statistic" menu item	"Yes"/"No"	40
"Versions" menu			
"Hardware Version	Displays the hardware version		41

Info"		DU/PU: 1 CU SB: 1	41
"Software Version Info"	Displays the software version	DU/PU:0.1.1.5CU SB:1.0.0.0CU Main:1.0.0.1	41

Display	Function of the menu item	Option/display	Page
"Settings" menu			
"Network"	Calls up the "Network" submenu	-	42
"Contrast"	Adjusts the contrast of the display panel	"1" "15"	42
"Lock"	Activates/deactivates the lock mode	"On"/"Off"	43
"Restore Factory Defaults"	Restores the factory default settings	"Yes"/"No"	43
"Network" menu			
"IP Address Mode"	e" Sets the IP address allocation mode "Static IP"/"Dynamic I		42
"IP Address"	Sets the IP address of the central unit	"xxx . xxx . xxx . xxx"	42
"Subnet Mask"	Sets the subnet mask of the central unit	"xxx xxx xxx xxx"	42

Working with the operating menu

By way of example of the "Microphone Limit" menu item, this section describes how to use the operating menu.

Information on the factory default settings of the operating menu can be found in the appendix (see page 111).

Changing from the standard display to the operating menu



Press the jog dial.

The standard display is replaced by the main menu. The last selected menu item is highlighted.

Calling up a menu item



- Press the jog dial to call up the "Conference" menu item. The "Conference" submenu appears.
- Turn the jog dial to select the "Microphone Limit" menu item.
- Press the jog dial to call up the "Microphone Limit" menu item.

Changing and storing settings

Conference Conference Mode	Microphone Limit		Ő	Microphone Limit	
Microphone Limit • Request Limit	Microphones	05	>	Microphones	07
5		05			07
Select and call up the "Microphone Limit" menu item	Select the desired setting			Store the setting	
▲					7

> Turn the jog dial to adjust settings in the "Microphone Limit" menu item.

Press the jog dial.

Your setting is stored. You are back to the operating menu.



By briefly turning the jog dial to the left or right, the next or the previous menu item or setting is displayed.

If you turn the jog dial to the left or right and hold it in this position, the menu items or settings change in quick succession ("fast search" function).

Canceling an entry



Press the ESC key.

The operating menu or the next higher menu level appears.

Or:

Press the standard display key. The standard display appears.

To subsequently directly return to the last edited menu item:



Press the jog dial repeatedly until the last edited menu item appears.

Exiting the operating menu



Adjusting the conference settings – "Conference"

The settings available in the "Conference" menu item affect the behavior of the entire conference system during a conference.



Adjusting the conference mode - "Conference Mode"



Possible settings: "Direct Access", "Override" and "Request".

"Direct Access" mode and "Override" mode:

These two conference modes do not require the use of a chairman unit.

If the maximum number of speakers who can take the floor simultaneously ("Microphone Limit") has not been reached, a further speaker can take the floor immediately.

Situation	The maximum number of speakers who can take the floor simultaneously ("Microphone Limit") has been reached.
Event	A further speaker presses the microphone key on his or her conference unit.
Behavior	In "Direct Access" mode: The speaker has to wait until one of the current speakers passes on or loses his or her speaking privileges. He is then automati- cally granted speaking privileges.
	In "Override" mode: The speaker can take the floor immediately. The speaker with the longest speaking time loses his or her speaking privileges.

• "Request" mode:

For this mode to function, a chairman unit is required.

In "Request" mode, the chairman receives requests to speak and grants speaking privileges according to the FIFO principle (First In – First Out), i.e. the speaker with the longest waiting time is granted speaking privileges.

Situation	The maximum number of requests to speak has been reached ("Request Limit").
Event	A further speaker makes a request to speak.
Behavior	The speaker can only make a request to speak if the maximum number of requests to speak drops below the specified limit value.

Setting the max. number of speakers who can take the floor simultaneously – "Microphone Limit"



Adjustment range: "1" ... "10"

The "Microphone Limit" menu item allows you to set the max. number of speakers who can take the floor simultaneously in all conference modes. Please note that any connected chairman unit is counted against the microphone limit. If you set a higher value (adjustment range "1" ... "10") than the one determined by the number of connected chairman units, the system will reduce the microphone limit to the maximum possible value (see examples in the table).

Chairman units	Possible "Microphone Limit" values
0	"1" - "10"
4	"1" - "6"
10	"0"

For information on how this setting affects your conference, refer to the previous section "Adjusting the conference mode – "Conference Mode"".

Setting the maximum number of requests to speak – "Request Limit"



Adjustment range: "0" ... "10"

The setting adjusted in the "Request Limit" menu item becomes effective only if you are using a chairman unit ("Request" mode) or if you have selected "Direct Access" mode.

For information on how this setting affects your conference, refer to the section "Adjusting the conference mode – "Conference Mode"" on page 26.

Activating/deactivating the speaking time limit - "Talk Time Status"





This menu item allows you activate/deactivate the speaking time limit. The duration of the speaking time limit, the advance warning time, and the behavior after expiration of the speaking time limit can be set in the following 3 menu items.





Adjustment range: "01" ... "60", adjustable in steps of 1 minute

The speaking time limit becomes effective only if it is activated in the "Talk Time Status" menu item (see previous section).

Please note that the speaking time limit applies to each and every input to the discussion.

Setting the advance warning time – "Premonition Time Limit"



Adjustment range: "00" ... "120", adjustable in steps of 10 seconds

Set the advance warning time.
 This setting affects your conference as follows (example):

	2	\	
8)

"Talk Time Limit" (speaking time limit)	15 (minutes)
"Premonition Time Limit" (advance warning time)	60 (seconds)
Effect	60 seconds before the speaking time limit expires, i.e. after 14 minutes in this example, the signal light ring 2 and the microphone LED 3 start flashing red.

Determining the behavior when the individual speaking time is exceeded – "Reaction on Talktime Exceed"



Possible settings: "Continue" and "Cancel"





Activating/deactivating the flashing of the signal light ring when a request to speak is made – "Blink on Request"



Possible settings: "On" and "Off"

Setting	Behavior of the signal light ring
"On"	When a participant makes a request to speak, the micro- phone LED ⁽³⁾ flashes green and the signal light ring ⁽²⁾ flashes red. The participant him or herself sees the flashing microphone LED ⁽³⁾ whereas the other participants see the flashing signal light ring ⁽²⁾ which indicates that a request to speak has been made.
"Off"	When a participant makes a request to speak, the micro- phone LED ³ flashes green. All other participants cannot see that this participant has made a request to speak.

Re-initializing the conference units - "Re-Init"

If you connect chairman units to the conference system during a running conference, you have to re-initialize them.

When conference units are re-initialized, the conference will be interrupted.



Possible settings: "Yes" and "No"

Setting the function of the priority key **4** – "Clear Request List on Cancel"

This menu item allows you to set the function of the chairman unit's priority key (4).

- Setting "On": Pressing the priority key deactivates all delegate units. All requests to speak are deleted.
- Setting "Off": Pressing the priority key deactivates all currently active delegate units.

All requests to speak are retained.



Possible settings: "On" and "Off"



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Adjusting the audio settings – "Audio"

The "Audio" submenu allows you to adjust settings that affect the audio signals of the conference system.

Adjusting settings for the OUT audio output and the IN audio input – "XLR Out" and "XLR In" $\!\!$





In the "Equalizer" menu item, you can change between the frequency ranges by pressing the jog dial 4.

"XLR In Equalizer"

almost full deflection at maximum input volume.

Adjusts the tone color

Press the ESC key (5) to cancel your entry and restore the previous state of all frequency ranges.

Adjusting settings for the floor channel – "Floor/Loudspeakers"





In the "Equalizer" menu item, you can change between the frequency ranges by pressing the jog dial ④.

Press the ESC key (5) to cancel your entry and restore the previous state of all frequency ranges.

Adjusting the processing of the conference units' audio signals in the floor channel – "Audio Gain Reduction"



Possible settings: "0.0 dB per Mic" ... "-3.0 dB per Mic" and "Linear Division"

The sum of the audio signals of all conference units is fed to the floor channel ("Floor/Loudspeakers") which in turn is output via the conference units' built-in loudspeakers and via the OUT audio output. The volume level of the floor channel increases with each additional audio signal^{*} and tends to overmodulate. The "Audio Gain Reduction" menu item allows you to adjust how the volume levels of the signals of the conference units are processed.

Situation	The audio signal of the 1. conference unit is fed to the floor channel.
Event	The audio signal of another conference unit it fed to the floor
	signal wasn't influenced.

conference units and IN audio input

 Behavior "0.0 dB per Mic" ... "-3.0 dB per Mic" setting: With each additional audio signal, the volume level of the floor channel is reduced by the adjusted value.
 Try out the different settings by activating the maximum number of open channels (see page 45). The floor channel should be heard at the desired volume level without any distortion or feedback.
 First start with low values.
 "Linear Division" setting: The volume level of the floor channel is automatically reduced depending on the number of conference units (high gain reduction of the audio signal).

Checking the system and detecting problems – "System"

The "System" submenu provides information on the current status of your conference system and any errors that have occured.

After switch-on, the central unit automatically performs a self-test. If errors are detected during the self-test, the error icons 0 to 0 indicate the type of error encountered. When the error icons 0 to 0 appear, the display panel changes from orange to red.

The central unit also checks the conference system for errors during a running conference and, if necessary, shows the following icons to indicate these errors.



lcon	Meaning
A	Warning triangle
f	Short-circuit icon
X	Cable fault icon
ŦŦ ≟	Structural change icon

To ensure trouble-free operation of your conference system:

- Carry out the following steps before starting the conference. This allows you to diagnose and remedy errors in your conference system at an early stage.
- Set up your entire conference system. If you do not yet know the final number of participants, take the maximum number of participants as a starting point. Connect the corresponding number of conference units to the central unit.
- Switch the central unit on.
 The central unit performs a self-test.



If the number of participants increases after an error-free self-test, we strongly recommend you to perform a new self-test before starting your conference.

If an error or a warning occurs, proceed as follows:

- Eliminate the error (see the following tables).
- After error elimination, perform a manual self-test by selecting "Yes" in the "Start Self-Test" menu item:



The central unit now checks if the reported error still occurs. If the error has been eliminated, the corresponding error icon will go off after the self-test.

The following tables show possible error indications and steps for error elimination.



	■ () 20	Only the structural change		
	ਿਾ≣਼ੀ	🤳 icon 2 is displayed.		
	\ 21			
Error	Change in the number of conference units due to:			
	• manual adding or removal	of one or several conference units		
	 automatic resetting of one or several conference units (the conference units restart) 			
	 switch-off of one or seve voltage 	ral conference units due to under-		
	 disconnection of one or several conference units e.g. caused by faulty plug connections wire or cable faults 			
Remedy > Perform a manual self-test (see page 40).

The display can change as follows:

- The structural change icon ⁽²⁾ disappears: The structural change has been detected, there are no errors.
- The structural change icon (2) is still displayed: Follow the steps below.

If, after performing the self-test, the structural change icon <a>[2] is still displayed:

- Reset the error counter ("Break Counter") (see page 40).
- Change to the "Bus Statistics" menu item (see page 39) and check the digit behind "Break Counter".
- Carefully move the conference units and systems cables and check if the digit behind "Break Counter" is increased.
 If the digit is increased, check the corresponding plug connections or replace the corresponding conference units and system cables.

If the error still occurs:

- Follow the steps described in the "System Load" menu item (see page 38).
 - Perform a manual self-test (see page 40).



Perform a manual self-test (see page 40).



Error and Wrong cabling; the microphone LED ⁽³⁾ a of the affected conference unit flash red.

Check if the cables are connected correctly (see page 17).

Displaying the type and number of conference units connected to the connections PORT I or PORT II – "Ports"



The "Ports" menu item displays the number of delegate units ("Deleg") and chairman units ("Chair.") connected to the connection sockets PORT I and PORT II.

System analysis – "Diagnostics" submenu



The "Diagnostics" menu item provides information on the status of the current and voltage supply, on the status of data transmission and on interruptions due to faulty cables or cable connections.



Both ports can be subjected to undervoltages, overcurrents and short-circuits:

Display	Meaning and causes
Current	An overcurrent in the central unit can be caused by
8	 metal parts (e.g. paper clips) that bridge the contacts of the plug connections
	faulty conference units
	faulty system cables
	too long system cables
	 too many conference units connected to one port
Voltage	An undervoltage can be caused by
$\overline{\mathbf{S}}$	faulty conference units
	too long system cables
	 too many conference units connected to one port
Current	A short-circuit in the central unit can be caused by e.g.
÷	 metal parts (e.g. paper clips) that bridge the contacts of the plug connections
	faulty system cables
	 wrong cables (e.g. crossover cables)
Voltage	The port is deactivated due to e.g.
	no conference units connected
	a short-circuit

If an error icon appears (see page 34), check your conference system for the errors mentioned above.



If an error is detected at startup of the central unit, first eliminate the error and then perform a manual self-test (see page 40) in order to check if the error still occurs.

If an error has only occured during operation and has already been eliminated, this is automatically detected by the central unit.

Possible steps for error elimination:

- Eliminate the errors separately for each port.
- Calculate the maximum length of the cable string (see page 13) and, if necessary, reduce the cable length.
- Reduce the number of conference units to 15-20 max. per cable string.

Displaying status information on the current and voltage supply – "System Load" • If necessary, further reduce the number of conference units until there are no errors reported.

Then add conference units one after the other and observe the central unit's display. If an error is reported, the cause of the error might be the last added conference unit, the cable used or metal parts that bridge the contacts of the plug connection.



If the temperature within the central unit is too high (display: " $^{\textcircled{O}}$ "), proceed as follows:

- Make sure that the air vents are not covered or blocked (see page 15).
- If necessary, clean the air vents (see page 104).

If the central unit is mounted into a rack:

Provide additional ventilation by providing for a clearance below the central unit and/or installing additional fans into the rack.

When the temperature is again within the permissible temperature range, this is automatically detected by the central unit (display: "[©]"). The temperature check is carried out cyclically.

If, in spite of these measures, the temperature is still detected to be too high, one of the fans might de faulty:

 Have the fans checked and, if necessary, replaced by qualified maintenance personnel.



Possible causes for system bus errors are:

- changes in the number of conference units
- faulty cables
- faults in cable shields
- faulty conference units
- strong electromagnetic fields

If there are system bus errors, the " $\textcircled{\otimes}$ " icon appears behind "Error Indication". The display panel lights up red and the warning triangle $\textcircled{\otimes}$ is displayed on the standard display (see page 34).

There are temporary or permanent transmission errors:

Temporary transmission errors can be caused by e.g. poorly shielded mobiles phones that are placed too close to the system cables or conference units. If the transmission error no longer exists, the " \bigcirc " icon appears on the display. The display panel lights up orange and the warning triangle 24 goes off.

Displaying system bus errors – "Bus Statistics"

Performing a manual self-test -

"Start Self-Test"

Permanent transmission errors must be eliminated immediately in order to ensure trouble-free operation of your conference system. Follow the steps for error elimination described under the "System Load" menu item (see page 38). In addition, check if other electronic devices in the proximity of the conference system might cause the errors.

You can manually reset the " $^{\odot}$ " icon behind "Error Indication" to the default icon (" $^{\odot}$ ") (see page 40).

The error counter ("Break Counter") incrementally counts all errors and changes in the conference system (e.g. added conference units). Based on the changes of the counter's counts, you can conclude on the error source (e.g. if the counter rapidly increments when you wiggle the cable, this indicates a faulty cable).

You can manually reset the error counter ("Break Counter") (see page 40).



If the central unit detects errors after switch-on or during operation:

- Eliminate these errors (see page 34 and following).
- Perform a manual self-test by selecting "Yes" in the "Start Self-Test" menu item. The conference is interrupted.

The central unit now checks if a reported error still occurs. If the error is eliminated, the corresponding error icon goes off after the self-test. If the error icon is still displayed, you have to take further steps to eliminate the error (see page 34 and following).



Always perform the self-test after you have eliminated the reported errors.



Possible settings: "Yes" or "No"

This menu item allows you to reset the error counter ("Break Count") in the "Bus Statistic" menu item (see page 39).







This menu item allows you to manually reset the display of data bus errors ("Error Indication") in the "Bus Statistic" menu item to default (see page 39).



We strongly recommend to always perform a self-test (see page 40) in order to make sure that the error is eliminated.

After a successful self-test, the error icons go off and the display of data bus errors is automatically reset to default.

Displaying the hardware and software version – "Versions" submenu



The "Versions" menu item provides information on your hardware and software versions.

Information on firmware updates for your conference system is available from your Sennheiser partner or from the download area on our website at www.sennheiser.com.



Displaying the hardware version – "Hardware Version Info"

Displaying the software version – "Software Version Info"

Adjusting the language – "Language"

Via the "Language" menu item, you can adjust the language of the operating menu:



Adjusting further settings – "Settings"

Adjusting network settings - "Network" submenu



The "Network" submenu allows you to set the IP address allocation mode, the IP address and the subnet mask.

For detailed information on network settings, refer to the chapter "Preparing the Windows version of the software for use" on page 50.



You can adjust the contrast of the display panel in 15 steps.

Activating the lock mode – "Lock"



When you activate the lock mode, you are automatically returned to the standard display. For information on how to deactivate the lock mode, refer to page 21.





The "Restore Factory Defaults" menu item allows you to restore the factory default settings (see "Factory default settings" on page 111).

Running a conference

The character of your conference (i.e. the conditions under which the participants can take the floor or are granted speaking privileges) depends on the settings of the central unit (see page 26).

Possible settings: "Direct Access", "Override" and "Request".

• "Direct Access" mode and "Override" mode:

These two conference modes do not require the use of a chairman unit.

If the maximum number of speakers who can take the floor simultaneously ("Microphone Limit") has not been reached, a further speaker can take the floor immediately.

Situation	The maximum number of speakers who can take the floor simultaneously ("Microphone Limit") has been reached.
Event	A further speaker presses the microphone key on his or her conference unit.
Behavior	In "Direct Access" mode: The speaker has to wait until one of the current speakers passes on or loses his or her speaking privileges. He or she is then auto- matically granted speaking privileges.
	In "Override" mode: The speaker can take the floor immediately. The speaker with the longest speaking time loses his or her speaking privileges.

"Request" mode:

For this mode to function, a chairman unit is required.

In "Request" mode, the chairman receives requests to speak and grants speaking privileges according to the FIFO principle (First In – First Out), i.e. the speaker with the longest waiting time is granted speaking privileges.

Situation	The maximum number of requests to speak has been reached ("Request Limit").
Event	A further speaker makes a request to speak.
Behavior	The speaker can only make a request to speak if the maximum number of requests to speak drops below the specified limit value.



You can control the conference either via chairman units (see the following chapters) or via the "Conference Manager" software (see page 49).

Operating a delegate unit

Taking the floor/Making a request to speak

Depending on the conference mode set (see page 26) you can

- take the floor immediately or
- make a request to speak.

You then have to wait until the chairman activates your microphone.

If the conference mode is set so that you can take the floor immediately ("Direct Access" mode (factory default setting) or "Override" mode, see page 26):

Press the microphone key 7.

Your microphone is activated and you can take the floor immediately. The microphone LED ⁽³⁾ and the signal light ring ⁽²⁾ light up red. The loudspeaker ⁽⁹⁾ is muted. Depending on the conference mode and the microphone limit set, the microphone of the previous speaker will be deactivated.

If the conference mode is set so that you first have to make a request to speak ("Request" mode, see page 26):

Press the microphone key 7.

Your request to speak is added to the request-to-speak list.

Depending on the setting adjusted in the operating menu (see page 30):

- the microphone LED 8 flashes green and the signal light ring 2 flashes red or
- only the microphone LED (8) flashes green.

When the chairman grants you speaking privileges, your microphone is activated. The microphone LED ⁽³⁾ and the signal light ring ⁽²⁾ light up red. The loudspeaker ⁽⁹⁾ is muted. Depending on the conference mode and the microphone limit set, the microphone of the previous speaker will be deactivated.



With a chairman unit, you can take the floor at any time, without first having to be granted speaking privileges.

If you are using delegate units only, you can only choose conference modes where speaking privileges do not have to be granted by a chairman ("Direct Access" or "Override" mode, see page 26). Alternatively, you can use the "Conference Manager" software to control the delegate units (see page 95).

Deactivating the microphone/Cancelling a request to speak

To deactivate the microphone when you have finished speaking or to cancel a request to speak:

Press the microphone key 7 once more.
 The microphone LED 8 and the signal light ring 2 go off.



Connecting headphones

You can connect mono or stereo headphones to the conference unit to listen to the floor channel. The headphone volume can be individually adjusted on the conference unit.

Connect headphones with a 3.5 mm jack plug to the headphone socket 3.

Setting the headphone volume



Listening at high volume levels for long periods can lead to permanent hearing defects.

- Inform the conference participants about this fact.
- Set the volume to a medium level.
- Do not continuously expose yourself and other conference participants to high volumes.

Put the headphones on.

To set the volume:

- Turn the headphone volume control 6
 - to the right to increase the volume or
 - to the left to reduce the volume.

At switch-off, the headphone volume is reset to a medium level.

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The volume of the conference units' loudspeakers can be set via the central unit (see page 48).

Operating a chairman unit

Beside the chairman functions, chairman units offer the same functions as delegate units (see page 45).

With a chairman unit, you can take the floor at any time.



If your conference system comprises several chairman units, all chairman units have equal rights.





Granting speaking privileges

If – in "Request" mode – a participant presses the microphone key on his or her delegate unit, he or she makes a request to speak. All participants who have made a request to speak will join a request-to-speak list.

Depending on the setting adjusted in the operating menu (see page 30):

- the microphone LED (3) flashes green and the signal light ring (2) flashes red or
- only the microphone LED **(8)** flashes green.

To grant speaking privileges to the next participant from the request-to-speak list:

Press the NEXT key 5.

The next participant from the request-to-speak list is granted speaking privileges.



If you are using the "Conference Manager" software, you can also grant speaking privileges with a mouse click (see page 99).

Ending a conference or withdrawing speaking privileges (cancel function)

Depending on the setting adjusted in the operating menu (see page 30):

- All LEDs go off and the delegate units are deactivated. A request-to-speak list, if available, is cleared.
- All currently active delegate units are deactivated. All requests to speak are retained.
- Briefly press the priority key 4.
 The conference system behaves as set.



If you are using the "Conference Manager" software, you can also deactivate all delegate units with a mouse click (see page 95).









Muting all delegate units temporarily (priority function)

Using the priority function, the chairman can interrupt a discussion at any time. The speaking privileges of all chairman units remain active at any time.

 Keep the priority key 4 pressed for as long as you want to mute the conference units.

All conference units – except for the chairman units – are muted immediately. The microphone LED ⁽³⁾ and the signal light ring ⁽²⁾ of the previously active conference units flash red. You can take the floor immediately. The microphone LED ⁽³⁾ and the signal light ring ⁽²⁾ of your chairman unit light up red.

Release the priority key 4.
 The muting of the conference units is canceled. The discussion is continued.

Setting the volume of the conference units' built-in loudspeakers



You can set the volume of the conference units' built-in loudspeakers via the jog dial on the central unit. The standard display 10 displays the current volume setting.

CAUTION Danger of hearing damage due to loud hissing!

When the floor channel volume is set to a high level or when several participants speak simultaneously, feedback noise (loud hissing) can occur. This can cause hearing damage.

- Reduce the floor channel volume (see page 48, page 93 or page 101).
- Make sure that the "Audio Gain Reduction" function is activated (see page 32). This function reduces the gain per active microphone by the selected level and thus prevents feedback noise.
- Increase the distance between the individual conference units to at least 50 cm.

🗙 🕨 Turn the jog dial

- to the right to increase the volume or
- to the left to reduce the volume.



The volume of the conference units' loudspeakers can also be set via the central unit's operating menu (see page 32) or the "Conference Manager" software (see page 93).

Adding conference units to the conference system during operation

You can add conference units to the conference system during operation.

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When adding conference units to the conference system, observe the maximum number of conference units in order to ensure safe operation (see page 13).

All delegate units are ready for immediate use. The chairman units have to be re-initialized. Note that this will interrupt the conference (see page 30 or page 88).

Using the "Conference Manager" software

Possibilities of usage of the software and the conference system

The "Conference Manager" software allows you to conveniently manage and control the conference system. With the software, you can plan and graphically simulate conferences. Various configurations can be saved and thus be reused for other scenarios. In addition, you can use the software to control conferences. Conference rooms and conference participants are represented graphically, allowing you to keep track of and securely manage your conferences.

Hardware platforms for the software

The "Conference Manager" software can be run in two different ways:

The software is preinstalled on the central unit. In order to be able to use the software, you have to connect a screen, mouse and keyboard directly to the central unit (see "Preparing the central unit's integrated software for use" on page 50).

Alternatively, you can install the software on a Windows PC. You then have to integrate the PC together with the central unit in a network (see "Preparing the Windows version of the software for use" on page 50).

"Setup" and "Live" operating mode

In "Setup" operating mode, you can plan, configure and simulate conference situations. The software allows you to easily plan your conference by simulating a conference room, e.g. using lines, colors and photos. You can realistically simulate room situations, manage the names of the conference participants and assign these names to individual conference units. All conference settings can be adjusted and saved via the "Conference Manager" software. These settings can then be used in "Live" operating mode.

In "Live" operating mode, you can control a conference from your screen. For controlling the conference, you can choose between two views: "Room View" and "Delegate View". You can see at a glance which delegates are currently speaking and which have made a request to speak and you can activate or deactivate individual conference units just with a mouse click.

Establishing a connection between the software and the conference system

In order to be able to control a conference via the "Conference Manager" software, you have to connect the software to the conference system. If you are using a networked Windows PC, you can select different central units in the network. The software preinstalled on a central unit can only be connected to its central unit.

If you want to preconfigure a conference system, you can also use the "Conference Manager" software if there is no connection to the central unit.

Using the software preinstalled on the central unit

Using the software on a Windows PC

Planning and simulating conferences – "Setup" operating mode

Controlling conferences via the software – "Live" operating mode

The following overview shows the functions that are available depending on the connections status:



Preparing the central unit's integrated software for use

Connecting and configuring the screen, mouse, and keyboard

Connect the screen, mouse, and keyboard to the central unit (see page 19).

To optimally use the screen, mouse, and keyboard, you have to configure the devices one time:

Adjust the setting for the screen, mouse, and keyboard to your needs (see page 63).

Preparing the Windows version of the software for use

System requirements

Component	Requirement
Processor	Intel Pentium 4 or AMD Athlon XP, 2 GHz or more
RAM	Min. 512 MB
Hard disk	Min. 150 MB free hard disk memory
Drives	CD ROM or DVD ROM
Interfaces/network	Ethernet 100 MBit/s
TCP/IP internet protocol	Internet Protocol version 4 (IPv4)
Screen	Minimum resolution: 800 x 600 pixels Recommended: 1024 x 768 pixels
Operating system	Microsoft Windows XP Professional with SP 2 Microsoft Windows Vista Microsoft Windows 7

Installing the "Conference Manager" software

Start the "ADNSetup.exe" file in the "Conference Manager" folder on the enclosed CD ROM.

A confirmation prompt appears:

Betup - SENNHEISER	ADN 📃 🗖 🔀
	Welcome to the SENNHEISER ADN Setup Wizard This will install ADN Setup 1.0.0.0 on your computer. It is recommended that you close all other applications before continuing. Click Next to continue, or Cancel to exit Setup.
	Next > Cancel

Click the "Next" button.

A selection window appears:

elect Components	
Which components should be installed?	
Select the components you want to install, install, Click Next when you are ready to c	; clear the components you do not want to ontinue.
Custom installation	
ADN Conference Manager (local)	8,9 MB
Current selection requires at least 8,9 MB (of disk space.

ADN Conference Manager (local)

- Make sure that the "ADN Conference Manager (local)" check box is ticked.
- Click the "Next" button.

A summary of the installation settings is displayed:

Se	tup - SENNHEISER ADN
Re	sady to Install Setup is now ready to begin installing SENNHEISER ADN on your computer.
	Click Install to continue with the installation, or click Back if you want to review or change any settings.
	Setup type: Custom installation
	Selected components: ADN Conference Manager (local)
	K Back Install Cancel

- Confirm this summary by clicking the "Install" button. The installation starts.
- Follow the instructions of the Installation Wizard.

Adjusting the network settings

To enable communication between the central unit and the Windows PC:

Make sure that the network communication between the central unit and the Windows PC is not blocked by a proxy server and/or a firewall.

Ports 53248, 53249, 53250, 53251 are used for communication and port 21 is used for FTP transfer.

Ask your system administrator if a static IP address is to be used or if the IP address is to be allocated dynamically.

If you have to use a static IP address, ask for the subnet mask and the standard gateway.

Use the information provided by your system administrator to adjust the network settings of your central unit. Proceed as described under b) in the table on page 54.

If you have to make the decision whether to use static or dynamic IP addressing, proceed as follows:

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If the central unit is directly connected to a Windows PC, we recommend dynamic IP address allocation. Adjust the network settings of the PC and the central unit as described under a) in the table on page 53.

The devices automatically detect whether IP address allocation is via DHCP or Zero Configuration Networking (Zeroconf). This process can take several minutes.





Wi	ndows XP	Windows Vista	Windows 7
Set	tings to be adjusted via the central u	nit (see page 42):	
	Main Menu Settings Network IP Mode		
	On the central unit, call up the "IP Mo	ode" menu item.	
	Select "Dynamic IP". The central unit is automatically inte	grated in the network and no further st	eps have to be taken.
b) ⁻	The Windows PC is assigned a static I	P address in the network:	
O IF SI D	Qbatin an IP address automatically Uge the following IP address: address: 192.168.1.145 jbnet mask: 255.255.0 efault gateway: 192.168.1.1	Obtain an IP address automatically O Use the following IP address: IP address: 192 . 168 . 1 145 Subnet mask: 255 255 0 Default gateway: 192 . 168 . 1 . 1	O Obtain an IP address automatically Ise the following IP address: IP address: 192 . 168 . 1 . 145 Subnet mask: 255 . 255 . 0 Default gateway: 192 . 168 . 1 . 1
Set	tings to be adjusted via the central u On the central unit, call up the "IP Ma Main Menu Settings Network IP Mode	nit (see page 42): ode" menu item.	
	Select "Static IP".		
	Determine the network part of the IR network part 192.168.1.145 device pa	P address of the Windows PC and note it rt	down:
	In this example, the network part is	"192.168.1".	
•	On the central unit, call up the "IP-Ad Main Menu Settings Network; IPAddress	ddress" menu item:	
	Set the network part of the IP addre	ss to the value retrieved from your Wind	ows PC.
	Set the device part (the last three di by another computer in your networ	gits) of the IP address to a value ("1" - " k (in this example, the device part must	254") that is neither used by your PC nor not be "145").

Starting/exiting the software

The central unit's integrated software

To start the central unit's integrated software:

Switch on the central unit and the connected screen. The "Conference Manager" software is started in "Setup" operating mode and the Room View window is displayed. The "Open" window appears in the foreground.



If the screen connected to the central unit does not show anything, it may be that the screen resolution is set too high. In this case, reset the screen resolution:

Press the key combination "CTRL" + "SHIFT" + "F1". The screen resolution is reset to 800 x 600 pixels.

To exit the software:

- If necessary, save your current configuration (see page 69).
- Switch off the central unit.

The Windows version of the software

To start the software:

Double-click the program icon on the desktop.

Or:

Click "Start" > "All Programs" > "Sennheiser" > "ADN" > "SENNHEISER Conference Manager".

The "Conference Manager" software is started in "Setup" operating mode and the Room View window is displayed. The "Open" window appears in the foreground.

To exit the software:

- If necessary, save your current configuration (see page 69).
- Click the key button on the toolbar.



Getting to know and adjusting the basic features of the software

Overview of the software

The main application window of the "Conference Manager" software consists of permanently visible elements and on views that depend on the operating mode.

The following diagram shows the Windows version of the "Conference Manager" software:



- (a) Menu bar
- **b** Buttons for selecting the views
- ⓒ Toolbar
- d Library panels
- e Buttons for selecting the operating mode
- (f) Views

Global Menu Edit Settings Help Menu Submenu **Function** Page Global Menu Creates a new configuration 67 New Conference Open Loads an existing configuration 68 Conference ... Delete Deletes and existing configuration 71 Conference Close Closes the current configuration 70 Save Saves the current configuration 69 (locally or on the central unit) Save as ... Saves the current configuration under a different file name (locally or on the central unit) Connect/ Establishes a connection to the central 66 Disconnect unit/disconnects a connection Autoload ... Automatically loads the central unit's 69 configuration at startup Exits the software 55 Exit Edit Undo Reverses the last action you performed 81 Redo Reverses the last Undo action Cut 81 Cuts an object and pastes it to the clipboard Copy Copies an object to the clipboard Paste Pastes an object from the clipboard Delete Deletes an object Step to back Moves the object one level to the back 81 Moves the object one level to the front Step to front Select All 76 Selects all objects Full Screen^{*} Activates/deactivates full screen mode 63 Conference Settings Opens the conference settings 90 Settings ... Audio Opens the audio settings 93 Settings ... Language Adjusts the language 64 Set Sets the password protection 64 Password ... Network Opens the network settings 65 Re-init Re-initializes the conference units 88 Conference Restore Restores the factory default settings of 65 Factory the software Settings System Opens the hardware settings for screen, 63 Properties** mouse and keyboard Help Help ... Starts the help function About ... Displays the current software version _

Menu bar (a)

only visible when you are using the Windows version of the software

only visible when you are using the central unit's integrated software



Alternatively, you can also use the keyboard shortcuts listed next to the commands.

Buttons for selecting the views (b)



on	Function
¥	Changes to the Room View window where you can configure and/or control the conference system via a graphical interface. The Room View window changes depending on whether "Setup" or "Live" operating mode is set (see page 59).
1	Changes to the Delegate View window where you can create a delegate list and control the conference by means of the list. The Delegate View window changes depending on whether "Setup" or "Live" operating mode is set (see page 59).

Toolbar ⓒ



only available in the Windows version of the software

Buttons for selecting the operating mode (e)

Button	Function
Setup	Sets the "Setup" operating mode which allows you to configure the conference system (see page 60). The button is highlighted in blue. The Room View window and the Delegate View window change their appearance in accordance with the selected operating mode.
Live	Sets the "Live" operating mode which allows you to control a conference using the software (see page 61). The button is highlighted in red. The Room View window and the Delegate View window change their appearance in accordance with the selected operating mode.



Selecting operating modes and views

In "Setup" and "Live" operating mode, you can switch between the Room View window and the Delegate View window.

Views of the software depending on the operating mode



Selecting the

"Setup" operating mode



Click the "Setup" button.

The software changes to "Setup" operating mode and the "Setup" button is highlighted in blue.

To display the Room View window:

Click the Room View button S.



To display the Delegate View window:

Click the Delegate View button 2.



Selecting the "Live" operating mode

- Live
- Prepare the "Live" operating mode and activate it (see page 95).

To display the Room View window:

Click the Room View button S.



To display the Delegate View window:

Click the Delegate View button 21.

1			
K	V 🞽		SENNHEISER
		123*	
ID	Delegate	Queue	
1	Andrew Smith		
2	Thomas Cook		
3	John Conner		
4	Stephanie Walker		
		# O Audio 10 0 (b) Talk Time # F Conference #	
-	4/ Volume	A CHACTER A CHARTER A CONFERENCE A	
a	M Volume		All Micros OFF

Adjusting the Room View window and the Delegate View window to your needs

You can adjust the Room View window and the Delegate View window to your needs. The library panels can be hidden or shown and can be changed in size. Changes to the View windows are not automatically saved and are reset to the factory default settings when the software is exited.

Hiding, showing and resizing the library panels

Library panels that show the ♥ or ≫ icon can be minimized and maximized:



The header of a library panel is always displayed.

Images	×		_			
nhone Unit(s)	~					
	*					
		I Grid	*	82 ≫	🔅 >>	
			itte Grid	III Grid	III Grid ≪ ⊙ ≫	III Grid 🔍 💭 👋 🤹 🔉

To hide a library panel:

Click the A or K icon in the header of the library panel that you want to hide.

To show a library panel:

► Click the ♥ or ≫ icon in the header of the library panel that you want to show.

To change the size of a library panel:

- Move over the or —— icon between the library panels. The mouse pointer k becomes the resize tool +↓+.
- Adjust the size of the library panel as needed.



The **a** and the **b** icons display if the "Equipment", "Images" or "Microphone Unit(s)" library panel is locked (**b**) or unlocked (**b**) (see page 84).

Adjusting the column width of the delegate list

To change the column width of the delegate list:

- Move the mouse pointer over the header of the delegate list. The mouse pointer k becomes the resize tool +↓.
- Adjust the column width as needed.

	2F	
ID	Delegate	+ - Queue
1	Andrew Smith	
2	Thomas Cook	



A double-click automatically adjusts the column width to fit the contents.

Using the full screen mode of the Windows software

In the menu bar, click "Edit" > "Full Screen". The full screen mode of the software is activated/deactivated.

Adjusting the screen, mouse, and keyboard settings and the date/time setting of the central unit^{*}

In the menu bar, click "Settings" > "System Properties". The "System Properties" window appears

System Properties	
Screen Resolution	Local Time
1024x768, True Color (32 bit), 60 Hertz 🗸	08/02/2010 09:27:45 AM
Mouse Speed	Keyboard Layout
at	Partick

То	adi	just	the	screen	settings:

creen Resolution		Select 1
1024x768, True Color (32 bit), 60 Hertz	~	box.
		T 1

Select the desired value from the drop-down list in the "Screen Resolution" box.

OK Cance

The screen resolution should be at least 800 x 600 pixels (recommended: 1024×762 or 1280×1024 pixels).

1

Screen resolutions and refresh rates are automatically adapted to the connected screen so that you can always select the optimum settings for e.g. flat screen monitors or video projectors. It might be necessary to restart the central unit in order to be able to select the optimum settings for your screen.

If the screen connected to the central unit does not show anything, it may be that the screen resolution is set too high. In this case, reset the screen resolution:

Press the key combination "CTRL" + "SHIFT" + "F1". The screen resolution is reset to 800 x 600 pixels.

To adjust the mouse pointer speed:

- In the "Mouse Speed" box, move the slider to
 - "Slow" to reduce the pointer speed or to
 - "Fast" to increase the pointer speed.

To adjust to keyboard layout to the central unit (e.g. cyrillic keyboard layout):

Select the desired value from the drop-down list in the "Keyboard Layout" box.

To adjust the date and time of the central unit:

- ▶ Highlight the individual digits in the "Local Time" box.
- Enter the date and time via the keyboard or click the S buttons to increase or reduce the highlighted digits.

Click "OK". The settings are saved and the "System Properties" windows closes.

* only if you are using the central unit's integrated software

Mouse Speed _____ Fast

Keyboard Layout	
English	~

Local Time	_
08/02/2010 09:27:45 AM	÷



The "Disk Space" box in the "System Properties" window provides information on the free memory available on the central unit.

Disk Space —		
Free Space:	1.5 GB	

Selecting the language

- In the menu bar, click "Settings" > "Language".
 A list with the available languages appears.
- Click the desired language.
 The language of the software is changed.

Using a password

You can use a password to protect existing configurations against unauthorized change. This means that all settings adjusted in "Setup" operating mode are locked. However, password-protected configurations can be used in "Live" mode and settings can be adjusted.

Protecting configurations with a password and changing a password

Help

Conference Settings...

English

Deutsch

Españo

anguage

Network.

Set Password...

In the menu bar, click "Settings" > "Set Password...". The "Set Password" window appears.

Set Password		
Old Password		
New Password		
Confim new Passwo	ord	
	Ok	Cancel

To enter a new password:

- Leave the "Old Password" field empty.
- To change an existing password:
- Enter the existing password into the "Old Password" field.
- Enter the new password into the "New Password" and "Confirm new Password" fields.

The password can consist of up to 16 characters.



If you do not want to use a password, leave the "New Password" and "Confirm new Password" fields empty.

Click "OK".

The new password is saved and the configuration is password-protected. Before any changes to the configuration are accepted, you are prompted to enter the password set.



The master key combination allows you to unlock password-protected configurations:

Press the key combination "CTRL" + "SHIFT" + "F10". An existing password is deleted.

Adjusting network settings

1
1 A 4 4

If you make changes to the settings in the "Network Settings" window, an existing network connection can be lost!

In the menu bar, click "Settings" > "Network...". The "Network Settings" window appears.

Obtain an IP # Use the follow	Address autom	atically
IP address: Subnet mask:		
L		Ok Cancel

To automatically integrate the central unit in a network using a dynamic IP address:

- Select the "Obtain an IP Address automatically" option button.
- Click "OK".

The setting is applied and the "IP Address" and "Subnet mask" fields display the automatically assigned addresses.

To manually integrate the central unit in a network using a static IP address:

- Select the "Use the following IP Address" option button.
- Enter the desired IP address into the "IP address" field.
- Enter the desired subnet mask address into the "Subnet mask" field.

Obtain an IP Use the follow	Address automatically	У	
IP address:	192.168.1 .145		
Subnet mask:	255.255.255.0		
		Ok	Cancel

Click "<mark>OK</mark>".

The setting is applied.



For further information on the network configuration of the conference system, refer to page 52.

Loading the factory default settings

In the menu bar, click "Settings" > "Restore Factory Settings". All software settings are reset to default.



If the screen connected to the central unit does not show anything, it may be that the screen resolution is set too high. In this case, reset the screen resolution:

Press the key combination "CTRL" + "SHIFT" + "F1". The screen resolution is reset to 800 x 600 pixels.

Using the conference system and the software

Connecting the software to the central unit

To connect the "Conference Manager" software to the central unit:

Start the software (see page 55).



Click "Connect".

Or:

In the menu bar, click "Global Menu" > "Connect ...".

The "Connect to CU" window appears, showing a list of available central units.



Select the desired central unit.



- The "Connect" button is also available in other program windows. Its function is always to connect the "Conference Manager" software to the central unit.
- The Windows version of the software allows you to select different central units in the network. The central unit's integrated software can only be connected to its own central unit.

Click "OK".

The software is connected to the selected central unit. The "Device Connected" icon \bigcirc appears on the toolbar.

Eliminating connection problems

If no connection to the central unit can be established or if the configuration cannot be found, an error message appears.



- Check if the central unit is correctly connected^{*} (see page 50) and switched on (see page 20).
- If necessary, disconnect an existing connection to the central unit in order to establish a new connection (see next section).

Click "Retry".

Retry

Disconnecting the connection to the central unit

- In the menu bar, click "Global Menu" > "Disconnect". A confirmation prompt appears.
- Click "OK".

The connection to the central unit is disconnected. If necessary, the software changes to "Setup" operating mode.

Creating a new configuration

In the menu bar, click "Global Menu" > "New Conference Document". The "Open" window appears.

- 1	New Conference Document	
	Open Active Conference Document from CU	
_ (Open Conference Document from CU	
	(*) active	
	🕚 Start in Setup Mode	
	💭 Start in Live Mode	
	Open Local Conference Document	

Select the "New Conference Document" option button.

Click "OK".

A new configuration is created. The software changes to "Setup" operating mode and the Room View window is displayed (see page 60).

^{*} only if you are using the Windows version of the software

Open

Loading a configuration

In the menu bar, click "Global Menu" > "Open Conference". The "Open" window appears.

If the software is connected to a central unit (see page 66), you can load three types of configurations:

Open Active Conference Document from CU		Loading a configuration	Actions
Open Conference Document from CU (*) active Start in Setup Mode Start in Live Mode Open Local Conference Document		of an active (running) conference ("Active Conference Document")	 To load your configuration in "Live"[*] operating mode: Select the "Open Active Conference Document from CU" option button. Click "OK".
Disconnect	OK Cancel		To select the operating mode ("Setup" ^{**} or "Live") in which the configuration is to be loaded:
			Select the "Open Conference Document from CU" option button.
			Select the configuration of an active confer- ence (marked with an asterisk "*") from the drop-down list.
			Select the operating mode ("Setup" or "Live") and click "OK".
		of a non-active conference ("Conference Document")	To select the operating mode ("Setup" or "Live") in which the configuration is to be loaded:
			 Select the "Open Conference Document from CU" option button.
			Select the configuration of a non-active conference (not marked with an asterisk "*") from the drop-down list.
			Select the operating mode ("Setup" or "Live") and click "OK".
		of a conference saved locally on the hard disk	Select the "Open Local Conference Docu- ment" option button.
		("Open Local Conference Document") ^{***}	Click "OK" and select the desired configura- tion from the "Open Conference" file selec- tion dialog box (file extension "*.adn").
			 Click "OK". The conference is loaded in "Setup" oper- ating mode.

After loading a configuration, the conference automatically starts in "Live" operating mode. Also observe the information on page 69.

** In "Setup" operating mode, you can adapt existing configurations to your needs.

*** Only available if you are using the Windows version of the software - even if there is no connection to a central unit.



If you open a configuration in "Setup" operating mode, the password set will be prompted (where applies) (see page 64).

Activating/deactivating automatic loading of a configuration

To automatically load a saved configuration at startup of the conference system:

- In the menu bar, click "Global Menu" > "Autoload". The "Autoload Properties" window appears.
- Establish a connection to the central unit (see page 66).
- Select the "Enable Autoload" option button.
- Select the desired configuration from the drop-down list.
- Click "OK".

At the next startup of the conference system, the selected configuration is automatically loaded in "Live" operating mode.

To deactivate automatic loading of a configuration:

- Select the "Disable Autoload" option button.
- Click "OK".

<u> </u>	•					 •	
	D CI	-	<u> </u>	 ~	1000		•
Javi				 	па	 	
		-		 			
				-			

You can save any number of configurations on either the central unit or locally on the connected Windows PC.

To save a newly created configuration on the central unit:

In the menu bar, click "Global Menu" > "Save". The "Save Conference" window appears.

ave conference	
Save Conference Document on CU	
Default.adn	\checkmark

- If necessary, establish a connection to the central unit (see page 66).
- Select the "Save Conference Document on CU" option button.
- Enter a file name into the drop-down list box.
- Click "OK".

The file is saved on the central unit.

You can click "Global Menu" > "Save" to save a configuration that already has a file name; there is no further query.



Settings made in "Live" operating mode or via the central unit's operating menu are immediately saved to the current configuration.

To protect your configuration, we recommend that you save it under a different file name before changing to "Live" operating mode:

- Make sure that the software is connected to the central unit (see page 66).
- Load the active configuration in "Setup" operating mode (marked with an asterisk "*", see page 68). This configuration contains the last settings used.

This configuration contains the last settings used.

Save the configuration under a different file name (see above).

Enable Autoload		
Default.adn	\sim	
Disable Autoload		
Disconnect		OK Cancel

Autoload Properties		
Enable Autoload		
Default.adn	\sim	
 Disable Autoload 		
Disconnect		OK Cancel

To save a newly created configuration on the hard disk of the Windows PC:

In the menu bar, click "Global Menu" > "Save". The "Save Conference" window appears.

Save Co	inference Do	cument on C	.U	
Save as	Local Confer	ence Docum	hent	

- Select the "Save as Local Conference Document" option button.
 - Click "<mark>OK</mark>".

The "Save conference" window appears.

Save conference	e				? 🛛
Save in:	😼 My Comput	er	-	+ 🗈 💣 📰+	
My Recent Documente Desktop My Documents My Computer	S Local Disk (C GATA (D:) OVD-RAM-Lauf	::) werk (E:)			
My Network	File name:			•	Save
/ laces	Save as type:	IS-ADN files (*.adn)		•	Cancel

- Select the desired storage location.
- Enter a new file name into the "File name" field.
- Click "Save".

ĭ

- The file is saved.
 - By default, the configurations are saved in the "My Documents/ADN/ Conference Files" folder.
 - You can click "Global Menu" > "Save" to save a configuration that already has a file name; there is no further query.

Saving a configuration under a different file name

- To save the current configuration under a different file name:
- In the menu bar, click "Global Menu" > "Save as ...". The "Save Conference" window appears.

Save Conference Document on CU	-
 Save as Local Conference Document 	

Save the current configuration under a different file name (see page 69).

Closing a configuration

In the menu bar, click "Global Menu" > "Close". The configuration is closed.

Deleting a configuration from the central unit

In the menu bar, click "Global Menu" > "Delete". The "Delete Conference" window appears.

eling Dec 2009.aun iel discussion Room 100.adn	

Select a configuration.

Click "OK".

After a confirmation prompt, the selected file is deleted.



Configurations saved on the hard disk of a PC can be deleted using the Windows Explorer.
Preparing a conference and mapping a conference room – "Setup" operating mode

In "Setup" operating mode, you can use photos and graphical elements to map a conference room. Using delegate lists, you can clearly assign conference units to conference participants and then monitor and control your conference.



Example of a photographical representation of the conference room (see page 78):



Example of a graphical representation of the conference room (see page 74):

Example of a delegate list (see page 85):

GibbarMand	Luc Jecongs Hep		
V			TAENNHEISEN.
	4 -		
		An and the second s	123*
10	Andrew Smith	Chairman 🔗	
2	Thomas Cook	~	
3	John Cooper		
4	Stenhanie Walker		
5	Lilly Robbin		
6	Melanie Irving		
7	Chris Meyer		
8	Jess Brady		
9	Katie Golding		
10	Vincent Davis		
11	Charlie Hewitt		
12	Bruce Wayne		
13	Liz Huston		
14	Charles Williams		
15	Michael Cullen		
16	Jenniter Watson		
17	Jessica Barry		
10	David Porter		
20	Joan McConnoll		
20	Jacon Thorn		
22	Topi McRollins		
25	Mariah Deaner		
23	Hank England		
24	Judy Gates		
26	Avril Conelly		
27	Jason Higgins		
28	Simon Scott		
29	Stacey Gowans		
	Eve Gibson		
Add	Remove		Import Export
() Setup	Live		

Planning and mapping the conference room

Placing objects on the canvas

Click the Room View button 1.



- Select an object from the "Equipment", "Images" or "Microphone Unit(s)" library panels. The selected object is highlighted in blue.
- k} ₹
- Add Add Multiple...

Creating and positioning a freeform path



Placing several objects on the canvas



- Drag the object onto the canvas. If the object can be dropped at the current cursor position, the object and the icon are displayed next to the mouse pointer. If the object cannot be dropped at the current cursor position, the Ø icon is displayed.
- Drop the object at the desired position. The object is placed on the canvas in standard size.

You can also place rectangles and circles as follows:

- Right-click the desired object.
 The context menu of graphic objects appears.
- Click "Add".

The object is placed in the center of the canvas.



You can predefine the color and border of the graphic objects so that the placed objects already have the desired properties (see "Defining fill, line and border attributes" on page 77).

In the "Equipment" library panel, select the Freeform Path tool and place it on the canvas (see page 74).

The starting point of the freeform path is set.

- Use mouse clicks to add anchor points to the freeform path.
- Double-click the last anchor point of the path. The freeform path is complete.

To place several rectangles or circles on the canvas:

- Right-click the desired object.
 The context menu of graphic objects appears.
- Click "Add Multiple...".

The "Add Equipment" window appears.

Add Equipment Number of Tables	1 🐥	_	
Proportion of Table	<u>1:1 v</u>	1	
	1	OK	Cancel



Enter the desired number of rectangles or circles into the "Number of Tables" field.

Select the shape of the rectangles or circles from the "Proportion of Table" drop-down list.

The thumbnail displays the selected shape.

Number of Tables	1 🗘	
Proportion of Table	111 12	
	4:1	
	3:1	
	2:1	
	1:1	
	1:2	
	1:2	

Click "OK".

The desired number of rectangles or circles is placed on the canvas.



Newly placed objects can cover existing objects. In this case, change the order of the objects by sending them to the front or back (see page 81).

Moving graphic objects

Select the desired object on the canvas. The object appears with a bounding box (dotted line) around it. Objects that cannot be selected are locked (see page 84).

Move the object to the desired position.

If you want to move several objects simultaneously, position the mouse pointer on the canvas, then click and hold down the left mouse button while you draw a box around the objects to be moved. Alternatively, hold down the "CTRL" key and click the desired objects one after the other.

You can also select all objects on the canvas by clicking "Edit" > "Select all" in the menu bar (or by pressing the key combination "CTRL" + "a").

Use the grid lines to align the objects (see page 83).

Resizing graphic objects

To resize rectangles, circles, lines or paths:

- Select the desired object on the canvas.
 The object appears with a bounding box (dotted line) and bounding box handles around it.
- Place the mouse pointer on the desired bounding box handle. The mouse pointer changes to a hand icon.
- Resize the object as needed.

Ôr



- Select the desired object on the canvas. The selected object is outlined with a dotted line. The "Form" box appears.
- 0 ° 45 ° 90 ° 135 ° 180 ° 225 ° 270 ° 3 Forr 315 ° Angle: 45 °
- Enter the desired rotation angle into the "Angle" drop-down list box.

Select the desired rotation angle from the "Angle" drop-down list.

Defining fill, line and border attributes

Please note when defining fill, line and border attributes:

If you select an object in the library panel and then define fill, line and border attributes, the defined attributes apply to all newly created objects of this type.

If you select an object already placed on the canvas and then define fill, line and border attributes, the defined attributes only apply to the selected object on the canvas.

Defining the fill color

🤹 (iolor «	III Outline
Fill:	E Red	Line:

To define the fill color: Select the object.

Click the "Fill" button. The list of colors appears.

Select a standard color.

- Or:
- Click the --- button. The "Select color" window appears.
- Select an individual color.
- Click "OK". The fill color is assigned to the selected object or to all newly created objects (see above).

To add an individual color to the list of standard colors:

- Select the desired color in the "Select color" window.
- Click "Add to Custom Colors". The color is added to the list of standard colors.



Changing the line and border style and color



To define the line or border style:

- Select the object.
- Click on the "Line" drop-down list. The list of available line styles appears.
- Select a line type.

The line style is assigned to the selected object or to all newly created objects (see above).

iil Ou	tline «	뉵
line:		ŧ
Color:	Red	R
_		
		1

Placing text on the canvas

Text

	Changing th	he font type
A Fo	nt	*
Font:	Arial	×
		13

Changing the font size

Cor	fer	ence	Mana	der
d			wierre	.
				40

Using image files

To define the line color:

- Select the object.
- Click the "Color" button.
- Select a standard color.
- Or:

- Select a color.Click "OK".
 - The line or border color is assigned to the selected object or to all newly created objects (see "Defining fill, line and border attributes" on page 77).
- Select the "Text" Text Object tool in the "Equipment" library panel and drag it onto the canvas.

The text object is placed on the canvas.

- Double-click the text object.
- Enter the desired text.
- Select the desired text object on the canvas. The text object appears with a bounding box (dotted line) around it. The "Font" box appears.
- Select the desired font from the "Font" drop-down list. The font of the text object is changed.



If a configuration file uses a font not installed on the central unit, this font is automatically replaced with the "Microsoft Sans Serif" font.

- Select the desired text object on the canvas. The text object appears with a bounding box (dotted line) and bounding box handles around it.
- Place the mouse pointer on the desired bounding box handle. The mouse pointer changes to a hand icon.
- > Drag the bounding box handle to resize the font size.

To particularly realistically simulate the conference situation, you can import image files of you conference room into the software. You can then position conference unit icons exactly where the conference participants are seated and you can also position pictures of the participants or company logos.



Image files can only be imported when you are using the Windows version of the software (see next page).

Click the "Room View" button 🔂.



To add an image file^{*}:

- In the "Images" library panel, click "Import...". The "Import..." window appears.
- Select an image file (file extension: "jpg", "png" or "bmp").
- Click "OK".

The selected image file is added to the library. If you save the configuration on the central unit (see page 69), all image files are copied and are then also available on the central unit. Image files with a resolution of more than 2048 pixels in width are automatically reduced to 2048 pixels.

The picture of the conference room should meet the following requirements:

- Each seat should be clearly visible.
- Each seat should have enough space for a conference unit icon.
- Use the perspective on the conference room that the conference manager, e.g. the chairman, will have.
- If possible, use a bird's-eye perspective, providing the conference manager with a good view of the conference room.
- Avoid using dark pictures so that the conference unit icons are always clearly visible on the screen.



Please note that the memory space on the central unit is limited (approx. 2 GB). To save memory space, delete image files that are no longer needed.

By default, the image files are saved in the "My Documents/ADN/ Images" folder.

To remove image files from the "Images" library panel^{**}:

- Select an image file.
- Click "Remove".

Images
 C/Dokumente und Einstellungen/ADN/Im
 Import...
 Remove

^{*} only if you are using the Windows version of the software

^{**} only if the library of the current configuration contains image files

Automatically aligning objects

Hold down the "CTRL" key and select several objects on the canvas using the mouse.

The objects appear with a bounding box (dotted line). The "Alignment" box appears.



串 Alig	*	
臣	串	8
णा	에	lln

In the "Alignment" box, click one of the following buttons:

Button	Objects are aligned to the
E	left edge
8	horizontal center
E	right edge
ण	top edge
0}	vertical center
п	bottom edge

The objects are aligned.

Click the Room View button S.



To reverse the last action you performed:

🕨 Click the 🗲 icon.

To reserve the last "undo" action:

Click the + icon.



You can undo and redo up to 10 actions.

Copying/pasting/cutting objects

Undoing/redoing actions → | & □ ▲ | □ ■

ok 🗆 🛍

a)

- To cut an object and paste it to the clipboard:
- Select the object that you want to cut and paste.
- 🕨 Click the 🛪 icon.
 - The selected object is cut from the canvas and pasted to the clipboard.

To copy an object to the clipboard:

- Select the object that you want to copy.
- Click the is icon.
 The selected object is copied to the clipboard.

To paste an object from the clipboard:

Click the & icon. The object from the clipboard is pasted to the canvas.

To delete an object:

- Select the object that you want to delete.
- Press the "Del" key.
 The selected object is deleted.

Moving objects forwards/backwards

- To move an object backwards:
- Select an object.
- Click the line icon.
 The selected object is moved backwards.

All objects on the canvas are placed on top of each other.

To move an object forwards:

- Select an object.
- Click the icon.
 The selected object is moved forwards.

Enlarging the canvas

When a new conference document opens in the Room View window, the canvas is the large area with the grid pattern. When you reduce the size of the canvas, you can see that the grid lines of the canvas are surrounded by a white area.



To enlarge the canvas:

Move any objects on the canvas beyond the area of the grid lines. The canvas is automatically enlarged and adjusted to the new position of the objects.



When you remove objects from the enlarged area of the canvas, the canvas is reduced to its normal size.

Changing the size of the canvas > Click the Room View button 🔂.





To enlarge/reduce the size of the canvas:

Select the desired scaling factor from the "Size" drop-down list. The size of the canvas is adjusted.



To rotate the contents of the canvas:

Click a or . The contents of the canvas is rotated by 90°.



When the contents of the canvas is rotated, the orientation of the text objects does not change so that the text remains readable.

Using grid lines

Click the Room View button S.



∰ Gr	id		*
Size:	20	x	20
⊻ st ⊻ st	now nap		
I Gr	id		*

Show

VI Snap

∰ Grid

Show Show

Size: 20 x 20

*

To show/hide the grid lines:

Tick/untick the "Show" check box.

- Enter the desired grid size (between 1 and 99) into the "Size" fields. The grid size is adjusted.
- To automatically align objects to the grid when you drop them on the canvas:
- Tick the "Snap" check box.



If the "Snap" check box is ticked, objects are also aligned to the grid when the grid is invisible.



Locking objects and library panels

All objects can be randomly placed on the canvas. You can lock all objects in the "Equipment", "Images" and "Microphone Unit(s)" library panels. In doing so, you also lock all objects placed on the canvas so that

 A
 B
 Equipment

 A
 Text

 B
 Images

Click the Room View button 1.

To randomly place objects on the canvas:

Untick the "Snap" check box.

Click the **1** icon in the header of the library panel that you want to lock. The library panel and the objects are locked (lock icon **2**). You can no longer drag objects from the library panel to the canvas or edit objects that are already placed on the canvas.

To unlock library panels:

they cannot be edited.

Click the a icon in the header of the library panel that you want to unlock. The library panel and the objects are unlocked (lock icon **a**).

Managing delegate data

```
Creating a delegate list
```

Click the Delegate View button . The Delegate View window appears (the screenshot below shows the Windows version of the software which features the additional buttons "Import" and "Export").

	Kildel Mira Edit Setting Help	# 6. 0. 6.0 A ¥
		I SENNHEISEN
	Non Codmence ID Delegate Chairman	
	A 1 2 4 4	
		1.00
	Add Remove	Import Export
	Since Life	Stort Initialization
	Click the "Add" button.	
	The "Add Delegate" window appears.	
	Add Delegate	
	Name:	
	OK Cancel	
	Enter the delegate name into the "Name" field.	
	► Click "OK".	
	The "Add Delegate" window closes and the delegate nan "Delegate" column.	ne is displayed in the
	ID Delegate Chairman	
	Stephanie Walker	
Changing a delegate name	Double-click a delegate name	
changing a delegate name	The "Add Delegate" window appears, displaying the con name.	responding delegate
	Change the name.	
	 Click "OK". The "Add Delegate" window closes. 	
Deleting a delegate name	 Select a delegate name. 	
Remove	 Click the "Remove" button. The delegate name is deleted from the delegate list. 	
Exporting a delegate list*	Click the "Export" button.	
Export	The "Save as …" window appears.	

* only if you are using the Windows version of the software

- Enter a file name.
- Select the desired storage location.
- Click "OK". The window closes and the delegate list is exported as an XML file.



By default, the delegate lists are saved in the "My Documents/ADN/ Delegates Lists" folder.

Importing delegate lists*

CAUTION Loss of delegate names

You can import delegate lists from other configurations:

If you import a delegate list, all existing delegate names will be deleted. This action cannot be reversed.

- Export the existing delegate list to save the data for later use (see above).
- Import... Click the "Import..." button. The "Import Participant Data" window appears.
 - Select the XML file with the delegate list.
 - Click "OK". The window closes and the delegate names are displayed in the "Delegate" column.

Initializing the conference units – "Setup" operating mode

In order to assign the conference units connected to the central unit to the conference unit icons in the software, you have to initialize the conference units. By initializing the conference units, you can clearly label the icons and assign them to certain seats or certain conference participants.

Overview of the conference unit icons

The icons display the current status of the conference units. The icons of chairman units are marked with a star.

Conference unit icon	Meaning
?	The icon has not yet been assigned a conference unit. The conference unit is not ready for operation.
2	
	The icon has been assigned a conference unit. The conference unit is ready for operation.
C	

Placing conference units on the canvas and initializing them

You can automatically or manually place conference units on the canvas and initialize them.

- Set up the conference system (see page 17).
- Establish a connection between the "Conference Manager" software and the central unit (see page 66).

* only if you are using the Windows version of the software

initialization of conference units

Automatic placement and

Click the Room View button S



In the "Microphone Unit(s)" library panel, click the "Scan" button. The conference unit icons are placed on the canvas and initialized in the order

which corresponds to the physical order of connection to the central unit. The sequential number of the conference units is displayed below the conference unit icons. The icons of chairman units are marked with a star.



If there are already conference unit icons on the canvas, a confirmation prompt appears, telling you that these icons will be deleted. If you do not want to delete these icons, you have to manually place and initialize the conference units (see next section).

To manually place conference units on the canvas, the software must not be connected to the central unit.

In the "Microphone Unit(s)" library panel, select a delegate unit icon or a chairman unit icon and drag it on the canvas (see page 74).

The sequential number of the conference unit is displayed below the icon. As long as the conference units are not yet initialized, a question mark is displayed on the icon.



To enable manually placed conference units for use:

Assign each icon on the canvas a conference unit that is connected to the central unit (see "Starting/stopping initialization of the conference units" on page 88).



If you only want to select and edit conference unit icons, you can lock the graphic objects and pictures that are in the background (see page 84).



Manual placement of conference units

Scan



Start Initialization

Stop Initialization

Changing the numbering of

the conference units

Resort

Stop Resort

Starting/stopping initialization of the conference units

65

To start the initialization of the conference units:

Click the "Start Initialization" button and confirm the confirmation prompt with "OK".

The microphone LEDs ⁽³⁾ and the signal light rings ⁽²⁾ of the connected conference units light up red. The conference unit icon with the number "1" is permanently marked with a red circle. All other icons are marked with flashing red circles.

To assign a conference unit to the conference unit icon which is permanently marked with a red circle:

- Press the microphone key (2) on the conference unit.
 The microphone LED (3) and the signal light ring (2) of the conference unit go off. The next conference unit icon is permanently marked with a red circle.
- Repeat this step for the remaining conference units. The initialization process is complete when all conference units are assigned.

You can only assign delegate units to delegate unit icons 🍻 and chairman units to chairman unit icons 🧆.

To stop the initialization of the conference units:

- Click the "Stop Initialization" button in the "Microphone Unit(s)" library panel. The initialization is stopped. All conference units that have not been initialized are marked with a question mark. If you continue the initialization, you have to assign all conference units again.
- To change the numbering of the conference units:
- Click the "Resort" button. The "Percent" button becomes the "St
 - The "Resort" button becomes the "Stop Resort" button.
- Click the conference unit icons in the desired order. The numbering of the conference unit icons is changed.



If, during numbering, you realize that you require further conference unit icons, just place them on the canvas. The numbering process is not interrupted.

To stop the numbering of the conference units:

- Click the "Stop Resort".
 - The changes made are retained.

To change the numbering of individual conference units:



Select a conference unit icon. The selected icon is marked with a blue rectangle and the "Microphone Unit" box appears.

- Enter the desired number into the "ID" field. The number of the conference unit icon is changed and the numbering of the other conference unit icons is automatically adjusted.
- Create a delegate list (see page 85).



Assigning delegate names to

 Select a conference unit icon.
 The selected icon is marked with a blue rectangle and the "Microphone Unit" box appears. Select the desired name from the "Delegate" drop-down list.

The name is assigned to the conference unit and is displayed below the icon. The conference unit assigned to the name appears in the "ID" column of the Delegate View window.



Changing the orientation/visibility of the icon labeling



You can change the orientation/visibility of numbers and delegate names assigned to the conference unit icons:

 Select a conference unit icon.
 The selected icon is marked with a blue rectangle and the "Label Orientation" box appears.

To change the orientation/visibility of the number:

Select the desired orientation from the "ID" drop-down list. The number is displayed at the selected side of the icon or is hidden.

To change the orientation/visibility of the delegate name:

Select the desired orientation/visibility from the "Delegate" drop-down list. The delegate name is displayed at the selected side of the icon or is hidden.

Setting	Orientation/visibility
"Left"	left
"Тор"	top
"Right"	right
"Bottom"	bottom
"Hidden"	hidden

Adjusting the conference settings – "Setup" operating mode

Adjusting the conference mode



Conference Settings	
Conference Mode :	Override 🗸 🗸
Microphone Limit :	2
Request Limit :	2
🗹 Blink on Request	
Talk Time Limitation	
Talk Time Limit	60 v minutes
Premonition Time	10 v seconds
Switch Off Microphone	on Talktime Exceed
📄 Clear Request List on Canc	el
🔒 CU Lock Status	💿 Unlocked 🛛 💿 Locked
	OK Cancel

Adjusting the conference mode

Conference Settings		
Conference Mode :	Override	X
	Direct Access	45
Microphone Limit :	Override	
	Request	
Donuart Limit ·	· · · · ·	

Select the desired conference mode from the "Conference Mode" drop-down list.

Possible settings: "Direct Access", "Override" and "Request".

• "Direct Access" mode and "Override" mode:

These two conference modes do not require the use of a chairman unit.

If the maximum number of speakers who can take the floor simultaneously ("Microphone Limit") has not been reached, a further speaker can take the floor immediately.

Situation	The maximum number of speakers who can take the floor simultaneously ("Microphone Limit") has been reached.
Event	A further speaker presses the microphone key on his or her conference unit.
Behavior	In "Direct Access" mode: The speaker has to wait until one of the current speakers passes on or loses his or her speaking privileges. He or she is then auto- matically granted speaking privileges.
	In "Override" mode: The speaker can take the floor immediately. The speaker with the longest speaking time loses his or her speaking privileges.

• "Request" mode:

For this mode to function, a chairman unit is required.

In "Request" mode, the chairman receives requests to speak and grants speaking privileges according to the FIFO principle (First In – First Out), i.e. the speaker with the longest waiting time is granted speaking privileges.

SituationThe maximum number of requests to speak has been reached
("Request Limit").EventA further speaker makes a request to speak.BehaviorThe speaker can only make a request to speak if the maximum
number of requests to speak drops below the specified limit
value.

Setting the max. number of speakers who can take the floor simultaneously

Microphone Limit :

Request Limit :

Activating/deactivating the flashing

of the signal light ring **2** when a request to speak is made

Setting the maximum number of

requests to speak

In the "Microphone Limit" field, you can set the max. number of speakers who can take the floor simultaneously in all conference modes. Please note that any connected chairman unit is counted against the microphone limit. If you set a higher value (adjustment range "1" ... "10") than the one determined by the number of connected chairman units, the system will reduce the microphone limit to the maximum possible value (see examples in the table).

Chairman units	Possible "Microphone Limit" values
0	"1" - "10"
4	"1" - "6"
10	" <mark>0</mark> "

For information on how this setting affects your conference, refer to the previous section "Adjusting the conference mode".

Adjustment range: "1" ... "10"

2 🗘

 $\hat{}$

2

Enter the max. number of speakers who can take the floor simultaneously into the "Microphone Limit" field.

The setting adjusted in the "Request Limit" field becomes effective only if you are using a chairman unit ("Request" mode) or if you have selected "Direct Access" mode.

For information on how this setting affects your conference, refer to the previous section "Adjusting the conference mode" (see page 90).

Adjustment range: "0" ... "10"

Enter the max. number of requests to speak into the "Request Limit" field.

Tick/untick the "Blink on Request" check box.

Check box	Behavior when a request to speak is made
is ticked	When a participant makes a request to speak, the
🗹 Blink on Request	microphone LED (8) flashes green and the signal light
	ring 2 flashes red.
is unticked	When a participant makes a request to speak, the
📄 Blink on Request	microphone LED ଃ flashes green.

Activating/deactivating the speaking time linit

Talk Time Limitation

The "Talk Time Limitation" check box allows you activate/deactivate the speaking time limit. The duration of the speaking time limit, the advance warning time, and the activation of an optical warning signal can be set individually.



If you make a new request to speak, the speaking time countdown is started again.

Tick/untick the "Talk Time Limitation" check box.

Check box	Behavior
is ticked	The speaking time is limited to the time period set.
✓ Talk Time Limitation	
is unticked	The speaking time is not limited.
Talk Time Limitation	

🗹 Talk Time Limitation

Talk Time Limit	60	🗸 minut
Premonition Time	10	 secor
Switch Off Microphone on Talktime Exceed		

To set the speaking time limit:

Enter the speaking time into the "Talk Time Limit" field.

Adjustment range: "1" ... "60", adjustable in steps of 1 minute To set the advance warning time:

 Select the desired advance warning time from the "Premonition Time" dropdown list.

Adjustment range: "00" ... "120", adjustable in steps of 10 seconds

This setting affects your conference as follows (example):

"Talk Time Limit" (speaking time limit)	15 (minutes)
"Premonition Time Limit" (advance warning time)	60 (seconds)
Effect	60 seconds before the speaking time limit expires, i.e. after 14 minutes in this example, the signal light ring 2 and the microphone LED 3 start flashing red.

To determine the behavior when the individual speaking time is exceeded:

▶ Tick/untick the "Switch off Microphone on Talktime Exceed" check box.

Check box	Behavior of the conference unit when the individual speaking time is exceeded
is ticked	The individual speaking time is terminated.
Switch Off Microphone on	The signal light ring 2 and the microphone LED (8) go off.
is unticked	The individual speaking time is continued.
Switch Off Microphone on	The signal light ring ${f 2}$ and the microphone LED ${f 8}$
	flash red until the speaker has finished speaking.



Setting the function of the "All Micros OFF" button

All Micros OFF

The "Clear Request List on Cancel" check box allows you to set the function of the "All Micros OFF" button (see page 100).

Tick/untick the "Clear Request List on Cancel" check box in the "Conference Settings" window.

Check box	Function of the "All Micros OFF" button
is ticked	Deactivates all delegate units and clears a request-to-
🗹 Clear Request List on Can	speak list (if available).
is unticked	Deactivates all currently active delegate units.
📄 Clear Request List on Can	All requests to speak are retained.

Locking/unlocking the central unit's operating menu

🔒 CU Lock Stati	ıs 💿	Unlocked	Locked
🔒 CU Lock Stati	ıs 💿	Unlocked	🔵 Locke

To protect the central unit's operating menu against any accidental change of settings:

In the "Conference Settings" window, select the "Locked" option button behind "CU Lock Status".

The central unit's operating menu is locked. To adjust settings via the operating menu, you have to deactivate the lock mode (see page 21).

To deactivate the lock mode:

Select the "Unlocked" option button behind "CU Lock Status". The central unit's operating menu is unlocked.

Adjusting the audio settings

 Click the button on the toolbar. The "Audio Settings" window appears.



Setting the volume and the tone color of the floor channel

CAUTION

Danger of hearing damage due to loud hissing!

When the floor channel volume is set to a high level or when several participants speak simultaneously, feedback noise (loud hissing) can occur. This can cause hearing damage.

- Reduce the floor channel volume (see page 93 or page 101).
- Make sure that the "Audio Gain Reduction" function is activated (see page 94).

This function reduces the gain per active microphone by the selected level and thus prevents feedback noise.

 Increase the distance between the individual conference units to at least 50 cm.



Adjusting the processing of the conference units' audio signals in the floor channel

Audio Gain Reduction:	
0.0 dB per Mic.	~

To set the floor channel volume:

Move the "Volume" slider ...

... upwards to increase the floor channel volume or ... downwards to reduce the floor channel volume. The floor channel volume is changed immediately.

To set the tone color of the floor channel:

- Move the "EQ low", "EQ mid" or "EQ high" sliders to change the tone color.
- Click "OK".
 - Your settings are saved and the "Audio Settings" window closes.

The sum of the audio signals of all conference units is fed to the floor channel which in turn is output via the conference units' built-in loudspeakers and via the OUT audio output. The volume level of the floor channel increases with each additional audio signal^{*} and tends to overmodulate. The "Audio Gain Reduction" menu item allows you to adjust how the volume levels of the signals of the conference units are processed.

Situation	The audio signal of the 1. conference unit it fed to the floor channel.
Event	The audio signal of another conference unit is fed to the floor channel. The volume level of the floor channel would increase if the signal wasn't influenced.
Behavior	"0.0 dB per Mic" "-3.0 dB per Mic" setting: With each additional audio signal, the volume level of the floor channel is reduced by the adjusted value.
	Try out the different settings by activating the maximum number of open channels (see page 45). The floor channel should be heard at the desired volume level without any distortion or feedback.
	 First start with low values.
	"Linear Division" setting:
	The volume level of the floor channel is automatically reduced depending on the number of conference units (high gain reduction of the audio signal).

* conference units and IN audio input

Using the OUT audio output/IN audio input and setting the tone color





To activate/deactivate the OUT audio output/IN audio input:

Tick/untick the "Audio XLR out"/ "Audio XLR In" check box.

The OUT audio output/IN audio input is activated (check box is ticked) or deactivated (check box is unticked).

To set the volume of the OUT audio output/the sensitivity of the IN audio input:

Move the "Volume" / "Sensitivity" slider ...

... upwards to increase the volume/sensitivity or

... downwards to reduce the volume/sensitivity. The volume/sensitivity is changed immediately.

- Set the sensitivity of the IN audio input so that the audio signal is not overmodulated at maximum input volume (see page 31).
- To set the tone color of the OUT audio output/IN audio input:
- Move the "EQ low", "EQ mid" or "EQ high" sliders to change the tone color.
- Click "OK".

Your settings are saved and the "Audio Settings" window closes.

To reset the audio settings for the floor channel, the IN audio input and the OUT audio output to the factory default settings:

- Set default
- Click the "Set default" button. All sliders are reset.
- Controlling and monitoring a conference "Live" operating mode

In "Live" operating mode, you can:

- control a conference from the screen,
- use either the Room View window or the Delegate View window for controlling the conference,
- use the graphical/photographical representations of the conference room that you created in "Setup" operating mode,
- – with a mouse click grant or withdraw speaking privileges to/from individual conference units,
- monitor speaking privileges.

Switching to "Live" operating mode – starting/ending a conference

- Load a conference configuration (see page 68).
 - Or:
 - Prepare a conference in "Setup" operating mode (see page 72).
- Click the "Live" button. The "Save Conference" window appears, allowing you to save the configuration on the central unit.

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Preparing and starting a conference

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It is vital to observe the information provided in the chapter "Saving a configuration" on page 69.

- Enter a file name into the drop-down list.
- Click "OK".

The configuration is saved on the central unit and "Live" operating mode is started. The View windows change their appearance accordingly and the "Live" button is highlighted in red.

To open the Room View window in "Live" operating mode:

Click the Room View button S.



To open the Delegate View window in "Live" operating mode:

Click the Delegate View button 21.



Using the software for controlling a running conference

If you want to use the software for controlling a running conference:

Load the configuration of a running conference (see page 68). The software switches to "Live" operating mode. All active conference units remain active and all requests to speak are retained.



If you have activated automatic loading of a configuration, the configuration is automatically loaded in "Live" operating mode (see page 69).

Monitoring a conference

You can monitor a conference from the screen without intervening.

Monitoring a conference using the Room View window



Element	Function/Meaning
a	Permanent list of chairman units, sorted by "ID" number
b	Delegate units with speaking privileges, sorted by chronological order of registration
C	Delegate units that have made a request to speak, sorted by chronological order of registration
d	Canvas with initialized conference unit icons

Monitoring a conference using the Delegate View window



Element	Function/Meaning
e	Permanent list of chairman units, sorted by "ID" number
(f)	Permanent list of chairman units, sorted by "ID" number
g	Permanent list of uninitialized conference units Designation "Unkn. at 7" ("7" stands for the number of the conference unit which is assigned by order of connection)

Overview of the conference unit icons

The conference unit icons display the current status of the conference units connected to the central unit. The icons of chairman units are marked with a star " \overleftrightarrow ".

lcon	Function/Meaning
? ?	Conference unit icon is not assigned to a conference unit
6	Conference unit is ready for operation
	Conference unit with speaking privileges
flashing	Conference unit with speaking privileges, shortly before the speaking time limit expires or when the speaking time limit is exceeded
flashing	Conference unit with speaking privileges but muted (via the priority function of the chairman unit, see page 48)
flashing	Conference unit has made a request to speak

Overview of the bar graphs

The conference unit icons display the current status of the conference units connected to the central unit.

ar graph	Meaning
	Chairman unit with speaking privileges
	Chairman unit is deactivated
	Delegate unit with speaking privileges,
	100 % of the speaking time is available
	Delegate unit with speaking privileges,
	approx. 50 % of the speaking time is available
l l	Delegate unit shortly before the speaking time limit expires
!!!	Delegate unit when the speaking time limit is exceeded
	Delegate unit is deactivated
) flashing	Delegate unit has made a request to speak

Controlling a conference

To grant speaking privileges to a conference unit (in all conference modes):

Click a conference unit icon.

The conference unit icon is then marked with a red circle and the conference unit is displayed in the "Delegates" box. The bar graph displays the current status. The conference unit is granted speaking privileges and the signal light ring 2 and the microphone LED 3 light up red.

To withdraw speaking privileges from a conference unit:

Click a conference unit icon marked with a red circle. The conference unit icon turns gray and the conference unit is removed from the "Delegates" box. The conference unit loses its speaking privileges and the signal light ring 2 and the microphone LED 3 go off.



- Click a green flashing conference unit icon.
 - Or:
- In the "Requests" box, click the conference unit to which you want to grant speaking privileges.

The conference unit is granted speaking privileges (see above) and is removed from the "Requests" box.

Granting/withdrawing speaking privileges using the Room View window



Delegates

1 John Conn ...





To grant speaking privileges to a conference unit by the order of the request-tospeak list (in "Request" and "Direct Access" mode):

- Click the "Next" button. The conference unit is granted speaking privileges (see above) and is removed from the "Requests" box.
- Granting/withdrawing speaking privileges using the Delegate View window

Next





- To grant speaking privileges to a conference unit:
- Click the name of the delegate to whom you want to grant speaking privileges.

The bar graph displays the current status. The conference unit is granted speaking privileges and the signal light ring ⁽²⁾ and the microphone LED ⁽³⁾ light up red.

- To withdraw speaking privileges from a conference unit:
- Click the name of the delegate.

The bar graph displays that the conference unit is deactivated. The conference unit loses its speaking privileges and the signal light ring 2 and the microphone LED 3 go off.

To arbitrarily grant speaking privileges to a conference unit that has made a request to speak (in "Request" and "Direct Access" mode):

- Click the name of the delegate to whom you want to grant speaking privileges.
 The conference unit is granted speaking privileges (see above).
- Delegate
 Queue

 3
 Andrew Smith

 7
 John Conner

 8
 Stephanie Walker

Deactivating all conference units

Click the "All Micros OFF" button.

The conference system behaves as set.

Depending on the setting (see page 92):

- All LEDs go off and the delegate units are deactivated. A request-to-speak list, if available, is cleared.
- All currently active delegate units are deactivated. All requests to speak are retained.

Adding conference units to the conference system during operation

You can also add conference units to the conference system during operation (see page 17).

All added delegate units are ready for immediate use. If you add chairman units, you have to re-initialize them. Note that this will interrupt the conference (see page 30 or page 88).

If you are using the "Conference Manager" software, newly added conference units only appear in the Delegate View window. The entry in the "Delegate" column shows the position of the conference unit in the cable string (e.g. "Unkn. at 3").

Via the Delegate View window of the "Conference Manager" software, you can also control conference units that are not initialized (see page 100).

ID	Delegate	Queue
	Unkn. at 3	
	Unkn. at 4	
	Unkn. at 5	



When adding conference units to the conference system, observe the maximum number of conference units in order to ensure safe operation (see page 13).

Adjusting settings during a running conference

In "Live" operating mode, the boxes "Volume", "Audio XLR", "Talk Time" and "Conference" are shown in the lower part of the window.



Setting the volume of the conference units' built-in loudspeakers

CAUTION Danger of hearing damage due to loud hissing!



When the floor channel volume is set to a high level or when several participants speak simultaneously, feedback noise (loud hissing) can occur. This can cause hearing damage.

- Reduce the floor channel volume (see page 93 or page 101).
- Make sure that the "Audio Gain Reduction" function is activated (see page 94).

This function reduces the gain per active microphone by the selected level and thus prevents feedback noise.

Increase the distance between the individual conference units to at least 50 cm.

Move the slider...

... upwards to increase the floor channel volume or

... downwards to reduce the floor channel volume.

The value next to the slider changes ("0"-"32") and the floor channel volume is adjusted.

Activating/deactivating the audio input/output



To activate or deactivate the IN audio input or the OUT audio output:

Tick/untick the check boxes in the "Audio XLR" box:

Audio input/output	activated	deactivated
IN audio input	🖌 In	In
OUT audio output	🗹 Out	Out

Activating/deactivating the speaking time limit



ĭ

If, in "Live" operating mode, you change settings that affect the conference mode (see next chapters), the conference will be interrupted. A confirmation prompt appears:

	In case of changing the Conference Mode
Δ	- the existing conference will be paused - all Microphones will be switched off - the Queue will be cleared
-	Do you want to change Conference Mode?

To activate or deactivate the speaking time limit:

- In the "Talk Time" box, tick/untick the "Limitation" check box (see also page 91):
 - − ticked
 : The speaking time limit is activated.
 - unticked : The speaking time limit is deactivated.

To change the speaking time limit:

Talk Time 《
 Limitation
 Imin

E Conference «

- In the "Talk Time" box, enter the desired speaking time limit into the dropdown list field (see also page 91).
- Changing the conference mode
- From the "Mode" drop-down list in the "Conference" box, select the desired conference mode (see page 90).
- Changing the maximum number of speakers who can take

the floor simultaneously

- From the "Open" drop-down list in the "Conference" box, select the maximum number of speakers who can take the floor simultaneously (see also page 91).
- Changing the maximum number of requests to speak (see page 91).
 - Changing the behavior of the signal light ring 2 when a request to speak is made
- Change the behavior of the signal light ring 2 when a request to speak is made (see page 91).

Exiting the "Live" operating mode

You can exit the "Live" operating mode by calling up the "Setup" operating mode:

 Click the "Setup" button. The "Stop" warning message appears.
 Stop
 Stop Live-Mode of the existing Conference?
 OK Cancel

Click "OK".

The software switches to "Setup" operating mode and the View windows change their appearance accordingly. A running conference is not interrupted.

Using the log and diagnosis function – "Event Log"

The log and diagnosis function allows you to log all changes to the conference system. As soon as a change to the system or an error is detected, the \bigwedge button on the toolbar changes to \bigwedge .

To start the "Event Log" function:

Click the

 <u>M</u> button on the toolbar.

Or, if the "Processing" window is displayed:



🕨 Click the 🛕 button.

The "Protocol" window appears.

rotocol					
	Time	 Location	Qualifier	Description	¥alue
Exp	iort			ОК	Cancel

Changes and warnings are listed in chronological order:

Column	Meaning/Function
"Time"	Time
"Location"	Location of error (central unit, conference unit)
"Qualifier"	Message qualifier: • "Info" • "Warning" • "Error" • "Critical Error"
"Description"	Error description
"Value"	Optional additional value (e.g. error code)

Exporting the log^{*}

- Export Click the '
- Click the "Export" button. The "Save as ..." window appears.
 - Enter a file name.
 - Save the file to the desired location.
 - Click "OK".
 - The log is exported as a text file ("*.txt").

^{*} only if you are using the Windows version of the software

Cleaning and maintaining the conference system

CAUTION Liquids can damage the product!

Liquids entering the product can cause a short-circuit in the electronics or damage the mechanics.

Solvents or cleansing agents can damage the surfaces of the product.

- Keep all liquids away from the product.
- Do not use any solvents or cleansing agents.
- > Before cleaning, switch the central unit off and disconnect it from the mains.
- Only use a dry and soft cloth to clean the product.
- To ensure optimum cooling of the central unit:
- Clean the air vents on the front, back and bottom from time to time with a soft brush or paintbrush in order to avoid dust deposits.



Updating the firmware of the conference system

 CAUTION Danger of damage to the conference system! Improper modification of the firmware (e.g. due to updates) can cause irreparable damage to the conference system.
 Only update the firmware if the function of your conference system is impaired or if the update is recommended by Sennheiser.
 Contact your Sennheiser partner to update the firmware.
 While the update is in process, do not disconnect the central unit and the conference units from the power supply.

For information on firmware updates for your ADN conference system, contact your Sennheiser partner.

If a problem occurs ...

Conference system

Problem	Possible cause	Possible solution	Page
Central unit cannot be switched on	The central unit is not connected to the mains.	Connect the central unit to the mains.	16
Conference unit cannot be used/activated	The conference unit is not connected correctly.	Check if all plugs are connected correctly.	17
	The cable string is too long.	Reduce the length of the cable string or reduce the number of conference units.	13
	The maximum number of requests to speak has been reached.	Increase the maximum number of requests to speak.	28 or 91
	The chairman unit has not been initial- ized before use.	If chairman units are connected after- wards, you have to initialize them.	30 or 88
The central unit's display panel displays error icons/ the display panel lights up red	Changes or errors have occurred.	Check the possible causes indicated by the icons.	34
Volume of the conference units' loudspeakers is too high or too low	The processing of the conference units' audio signals ("Audio Gain Reduction") is adjusted so that the gain of each additional channel is reduced too much or too little.	Adjusting the processing of the conference units' audio signals.	32 or 94
	The floor channel volume is not adjusted correctly.	Adjust the floor channel volume.	48, 93 or 101
Loud hissing at the confer- ence units' loudspeakers	The conference units are placed too close together.	Increase the distance between the individual conference units to at least 50 cm.	
	The floor channel volume is adjusted to a very high level.	Reduce the floor channel volume.	48, 93 or 101
After switch-on, the dele- gate units only indicate requests to speak	You are using ADN D1 delegate units exclusively. The conference mode chosen requires a chairman unit for granting speaking privileges (e.g. "Request").	Set a conference mode which does not require the grant of speaking privileges.	26 or 90
		Use an ADN C1 chairman unit to assign the "speaking right.	47
		Use the "Conference Manager" software to grant speaking privileges.	99
Delegate unit is automati- cally deactivated	The speaking time limit is activated.	Deactivate or increase the speaking time limit.	28 or 91
	A further speaker has made a request to speak in "Override" mode.	Change the conference mode.	26 or 90
		Increase the number of speakers who can take the floor simultaneously.	27 or 91
No request to speak can be made	The maximum number of requests to speak has been reached.	Increase the maximum number of requests to speak.	28 or 91
		Wait until one of the current speakers passes on his or her speaking privileges.	-
The signal light ring 2 does not flash when a request to speak is made	The function is deactivated.	Activate the function.	30 or 91

"Conference Manager" software

Problem	Possible cause	Possible solution	see page
Software cannot be connected to the central unit	No network connection.	Check the connections between network, central unit and PC.	20
	The IP address of the central unit or of the Windows PC has been changed.	Check the network settings and adjust them if necessary.	50
	There is already a connection to the central unit.	Disconnect the connection to the central unit.	67
Screen connected to the central does not show anything	The screen resolution is set too high.	Reset the screen resolution.	55
Network connection between Windows PC and central unit cannot be established	No Zeroconf service installed on the Windows PC.	If the PC and the central unit are directly connected to each other, the network configuration is usually done via Zeroconf – not via DHCP. If no Zeroconf service is installed on the PC, install this service or manually assign the route (subnet: 255.255.0.0; IP address range: 169.254.0.x; x = desired IP address of the PC).	-
	Improper IP address allocation to the PC and/or the central unit.	Check the network settings and adjust them if necessary.	52
	The network communication between the central unit and the Windows PC is blocked by a proxy server and/or a firewall.		
Password forgotten	_	Delete the existing password.	64
Objects in the Room View window cannot be changed	The objects are locked.	Unlock the objects.	84
	The software runs in "Live" operating mode.	Change to "Setup" operating mode to edit the configuration.	59
Pictures cannot be imported	You are using the central unit's integrated software.	Import pictures using the Windows version of the software.	78

If a problem occurs that is not listed in the above table or if the problem cannot be solved with the proposed solutions, please contact your local Sennheiser partner for assistance.

To find a Sennheiser partner in your country, search at www.sennheiser.com under "Service & Support".
Accessories

Cat. No. Description

	Central unit
502757	ADN CU1 central unit
054324	Mains cable, EU version, black, 1.8 m
054325	Mains cable, UK version, black, 1.8 m
054326	Mains cable, US version, black, 1.8 m
502031	ADN RMB-2 rack mount "ears"
	Conference units
502758	ADN D1 delegate unit
502759	ADN C1 chairman unit
504001	ADN TR 1 cable holder for conference unit
	System cables
009842	SDC CBL RJ-45-2 system cable with two shielded RJ 45 plugs, black, 2 m
009853	SDC CBL RJ-45-3 system cable with two shielded RJ 45 plugs, black, 3 m
009844	SDC CBL RJ-45-5 system cable with two shielded RJ 45 plugs, black, 5 m
009845	SDC CBL RJ-45-10 system cable with two shielded RJ 45 plugs, black, 10 m $$
009846	SDC CBL RJ-45-20 system cable with two shielded RJ 45 plugs, black, 20 m $$
009847	SDC CBL RJ-45-50 system cable with two shielded RJ 45 plugs, black, 50 m

Specifications

ADN D1 and ADN C1 conference units

185 x 63 x 140 mm (W x H x D)	
approx. 700 g	
35 V 52.8 V 	
2 W (w/o reproduction via loudspeakers)	
operation: +10°C to +40°C	
storage: -25°C to +70°C	
operation: 10 to 80%	
storage: 10 to 90%	
3.5 mm stereo jack socket	
50 mW/16 Ω	
0.03% at 50 mW/16 Ω	

Loudspeaker

Frequency response Signal-to-noise ratio

Microphone

Pick-up pattern	super-cardioid	
Frequency response	190 Hz to 14.5 kHz	

100 Hz to 14.5 kHz

> 70 dB(A)

ADN CU1 central unit

Dimensions
Weight
Nominal input voltage
Mains frequency
Power consumption
Output voltage at RJ45 EtherCAT
Nominal output current
Temperature range

Relative humidity

XLR IN

Input resistance Input level

Nominal level

approx. 6.5 kg 100 to 240 V~ 50 to 60 Hz 245 W 52.8 V === max. 1.75 A operation: +5°C to +50°C storage: -25°C to +70°C operation: 10 to 80% storage: 10 to 90%

417 x 100 x 345 mm (W x H x D)

R_{IN} > 10 K Ω	
max. +18 dBu min. –18 dBu	
+7.5 dBu	

XLR OUT

Output resistance		
Frequency response		
Output level		
Nominal level		
DHT (at 1 kHz)		
Signal-to-noise ratio		

R _{OUT} < 100 Ω		
20 Hz to 14.5 kHz; –3 dB		
max. +11 dBu		
+6 dBu		
< 0.02% A-weighted at +7.5 dBu		
> 80 dB A-weighted at +11 dBu		

Appendix

ADN CU1 mounting dimensions



Factory default settings

Menu item/description	Factory default settings
"Conference Mode" – conference mode	"Direct Access"
"Microphone Limit" – max. number of speakers who can take the floor simultaneously	"4"
"Request Limit" – max. number of requests to speak	"10"
"Talk Time Status" – status of speaking time limit	deactivated ("Off")
"Talk Time Limit" – length of speaking time limit	"60 Min"
"Premonition Time Limit" – advance warning time	"10 Sec"
"Reaction on Talk Time Exceed" – behavior when the individual speaking time is exceeded	microphone is deactivated immediately ("Cancel")

Menu item/description	Factory default settings
"Blink on Request" – flashing of the signal light ring when a request to speak is made	activated ("On")
"XLR Out Status" – audio output	activated ("On")
"XLR Out Volume" – audio ouput volume	"+ 6 dB"
"XLR OUT Equalizer" – tone color of audio output	0 dB
"XLR In Status" – audio input	activated ("On")
"XLR In Sensitivity" – input sensitivity of audio input	"+ 7.5 dBu"
"XLR IN Equalizer" – tone color of audio input	0 dB
"Floor/Loudspeakers Volume" – floor channel volume	"16"
"Floor/Loudspeakers Equalizer" – tone color of floor channel	0 dB
"Audio Gain Reduction" – processing of the volume level of the floor channel	no reduction ("0.0 dB per Mic")
"Languages" – Language of the operating menu	"English"
"IP Address Mode" – IP address allocation	"Dynamic IP"
"Contrast" – contrast of the display panel	" 9 "
"Lock" – lock mode function	deactivated ("Off")
Function of the priority key	requests to speak are deleted ("On")

Keyboard layouts

The central unit support keyboards with the following language layouts:

- Arabic
- Belgian
- Brazilian
- Bulgarian
- Canadian French
- Canadian English
- Chinese
- Croatian
- Czech
- DanishGerman
- English (US)
- English (UK)
- Spanish
- Estonian
- Farsi
- Finnish
- French
- Greek
- Hebrew
- Hindi

- Hungarian
- Italian
- Japanese
- Korean
- Kannada, Kanarese
- Lithuanian
- Malay
- Dutch
- Norwegian
- Polish
- Portuguese
- Romanian
- Russian
- Slowakian
- Slovenian
- Swedish
- Swiss German
- Swiss French
- Turkic
- Ukrainian

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- Updates,
- Supplements,
- Internet-based services, and
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CE Declaration of Conformity

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