



MAGIC THipPro / MAGIC THipPro Pure

Configuration Guide

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Additional Documents

- Get further information in the following documents which are available in the Download section of our website at <u>www.avt-nbg.de</u>.
- Quick Guides:
 - Audio over IP (AES67-DANTE-RAVENNA-LIVEWIRE)
 - Signalling and Control with DHD SetLogic
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 - MAGIC PhonerSet Provisioning Guide
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MAGIC THipPro MAGIC THipPro Pure

Overview

- Hardware THipPro
- Hardware THipPro Pure
- Hardware module slots
- Line Protocols
- Basic Features
- Optional Features
- Accessories





MAGIC THipPro Hardware

Full-featured telephone hybrid.

MAGIC THipPro



MAGIC THipPro Hardware - Front



- Five Status LEDs
 - POWER
 - SYNC (On while booting)
 - ALARM (Indicating hardware problems)
 - INFO 1, INFO 2 (Not in use)

PRETALK.

- Illuminated graphic display with 160 x 32 pixels & front keypad.
 - For basic settings and status display only.

Two RJ10 Handset/Headset interfaces for

MAGIC THipPro Hardware – Rear



- Two independent LAN interfaces to separate control and VoIP
 - Up to three VLANs per LAN interface
- Word clock input/output
- Optional Redundant Power Supply
 - Additional socket for an external power adapter.
- 2 x analogue mono audio in-/outputs
 - 2 x XLR male/female each

- 4 x AES3/EBU stereo audio in-/outputs
 - 8 digital audio lines (2 x Sub-D 15-pole with adaptors to XLR male/female)
- Programmable GPIO interface
 - 8 TTL in-/output
 - 8 relays (8 x NO)
- 2 x slots for extension modules

MAGIC THipPro Pure

MAGIC THipPro Pure Hardware

 Telephone hybrid without physical audio interfaces. Audio connection only via AES67, Dante or Ravenna. (Everything else is identical to MAGIC THipPro.)



MAGIC THipPro Pure Hardware - Front



- Five Status LEDs
 - POWER
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- Illuminated graphic display with 160 x 32 pixels & front keypad.
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MAGIC THipPro Pure Hardware – Rear



- Two independent LAN interfaces to separate control and VoIP
 - Up to three VLANs per LAN interface
- Word clock input/output
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- 2 x slots for extension modules



Module Slots

MAGIC THipPro MAGIC THipPro Pure



Module slots 1 and 2 (1)



ISDN

• 1 x ISDN module for 8 caller lines

or

2 x ISDN modules for 16 caller lines

POTS

- 2 x POTS modules for 8 caller lines
- Notice: A 16 channel POTS system is not available
- Available until 2023, Replaced by POTS Gateway.

- LAN 3/4 Module
 - Two additional 10/100 Mbit/s Ethernet interfaces



Module slots 1 and 2 (2)



- DANTE
 - 32 channels in/out
 - 2 Ethernet interfaces
 - Only for VoIP systems
 - The standard Audio interfaces can still be used

- 32 channels in/out
- 2 Ethernet interfaces
- Only for VoIP systems
- The standard Audio interfaces can still be used

RAVENNA

AVT Audio Video Technologies

Line Protocols

ISDN

Euro ISDN Supporting Multiple Subscriber Numbers (MSN) US ISDN (NI-1) Supporting Service Provider Identifications (SPID) Supporting Directory Numbers (DN) Japanese ISDN Supporting Multiple Subscriber Numbers (MSN)

POTS

Supporting worldwide country types, configurable via software (regarding impedances, levels and ringing signals). Separate country type settings for Main Exchange or PBX lines Busy tone measurement for automatic hang-up Caller ID (via DTMF, FSK SDMF, FSK MDMF)

VoIP

SIP - Session Initiation Protocol RFC 3261 Support of STUN (Session Traversal Utilities for NAT) for systems behind firewalls Configurable SIP server per line

Line Interface Upgrades

- MAGIC THipPro 8 VolP
 - 16 x VoIP (Hardware Upgrade)
- MAGIC THipPro 8 POTS
 - 8 x VoIP (Software Upgrade only)
 - 16 x VoIP (Hardware Upgrade)
 - 16 x POTS is not available
- MAGIC THipPro 8 ISDN
 - 8 x VoIP (Software Upgrade only)
 - 16 x VoIP (Hardware Upgrade)
 - 16 x ISDN (Hardware Upgrade)
- MAGIC THipPro 16 VoIP
 - currently no upgrade available
- MAGIC THipPro 16 ISDN
 - 16 x VoIP (Software Upgrade only)

- Mixed Mode
 - It is possible to specify for each line whether it should be used for VoIP or ISDN/POTS.
 - The precondition is that the same number of lines is licensed for both operating modes.
 - Licensed VoIP and ISDN/POTS lines don't add up.



Mixed Mode of the Line Interfaces

- The system allows for a simultaneous operation of
 - ISDN and VoIP lines
 - or
 - POTS and VoIP lines
- It can be configured freely which line is to be routed via ISDN/POTS or IP
 - 8-channels ISDN/POTS System + VoIP8 Upgrade
 - \rightarrow In total 8 lines can be used in the Mixed Mode
 - 8-channels ISDN System + VoIP16 Upgrade
 - \rightarrow In total 8 lines can be used in the Mixed Mode
 - 8-channels POTS System + VoIP16 Upgrade
 - \rightarrow In total 16 lines can be used in the Mixed Mode
 - 16-channels ISDN System + VoIP8 Upgrade
 - \rightarrow In total 8 lines can be used in the Mixed Mode
 - 16-channels ISDN System + VoIP16/32 Upgrade
 - \rightarrow In total 16 lines can be used in the Mixed Mode



Basic Features (1)

- Housing 19" x 1 U
 - Leave 1U space above the unit for cooling.
- No fan for noiseless operation
- Low power consumption of typically 15W
- Two basic system variants
 - 8 caller lines, upgradeable to 16 caller lines
 - 16 caller lines
- 12 Audio lines
 - 2 x analogue in-/outputs
 - 8 x digital in-/outputs (4 x AES)
 - 2 x handsets/headsets
 - (Not available on MAGIC THipPro Pure.)

- Digital signal processing for each channel
 - Echo Canceller with up to 120 ms echo tail time
 - AGC Automatic Gain Control
 - Expander for noise reduction
 - Voice Disguise (VD) function
- Multiple simultaneous conferencing possibilities for PRETALK and ON AIR

Basic Features (2)

- Up to 6 internal HOLD signals with up to 32 seconds.
- Up to 6 audio channels for external HOLD inputs
- DTMF generator for transmission of DTMF tones
- Programmable GPIOs for controlling the THipPro and for external signalling
 - 8x TTL
 - 8x Relay
- DHD SetLogic
 - Connect up to 16 DHD Cores
 - 96 GPIOs, each configurable as input or output
 - Predefined GPIOs for a dialling keypad

- Ember+ Provider
 - Connect up to 16 Ember+ Consumers
 - 96 inputs
 - 96 outputs
 - Predefined GPIOs for a dialling keypad
 - Caller number, caller name, Functions
- Ember+ Consumer
 - Connect to up to 16 Ember+ Providers
 - 20 function slots per Ember+ Consumer
 - For screening information, Numbers to dial, ...
- Integrated SIP Monitor and Logging
- Audio test panel with signal generator

Optional Features (1)

MAGIC THipPro LAN Software

- Touch optimized Windows PC software for call control
- Single user licence
- Up to 20 clients (LAN Client and Screener combined) per unit
- MAGIC THipPro Screener Software
 - Windows PC software optimised for data entry
 - Single user licence
 - Up to 20 clients (LAN Client and Screener combined) per unit
- News Desk Client Upgrade
 - Operate the LAN Client software in a slimmed down version.
 - No ON AIR and no configuration of the system possible
 - Single user licence
 - Up to 30 clients (combined with LAN Client and Screener) per unit
 - Operates on a separate pool of telephone lines which can be assigned individually to each News Desk client

- MAGIC System Manager
 - Access the MAGIC THipPro from AVT's central management software which supports all AVT telephone hybrids and audio codecs.
 - Comfortable overview of system health, full configuration and Preset management.
 - Windows PC software
- PhonerSet
 - Control up to eight lines via a touchscreen-equipped Grandstream Android phone.
 - Use the phone's handset for Pretalk.
 - Connect up to 8 PhonerSets.
 - Single licence per PhonerSet.

Optional Features (2)

- THipPro Admin Upgrade
 - Allows for splitting the telephone lines between up to six studios.
 - Sharing lines between studios is possible.
 - Without this upgrade each Client PC will see the same caller lines.
 - Single licence per studio.
- VoIP Extension Upgrade
 - For 8 or 16 channels
- Voice (G.722)
 - HD High quality speech codec in VoIP and ISDN operating mode
 - Doubling the audio bandwidth compared to the standard ISDN/VoIP codec.
 - Automatic selection of the best codec for VoIP calls.

- Pretalk Streaming via IP
 - Stream pretalk audio signals between up to 10 PCs and the THipPro.
 - Use any audio interface of the PC (e.g. a USB headset)
 - Supports convenient recording at the PC.
 - Single licence per Pretalk Stream
- MAGIC THipPro ACconnect
 - Seamless integration of the MAGIC ACip3 and MAGIC AC1 Go audio codecs.



Optional Features (3)

- LAN3/4 Module
 - Hardware upgrade adding 2 Ethernet interfaces (2x 100 Mbit/s).
 - Not available for POTS or ISDN hybrids.
 - Supports all protocols except AES67.
- AES67
 - Audio over IP networking software upgrade.
 - Output: 8 audio channels (1 stream).
 - Input: 8 audio channels (2 streams).
 - Announcement and auto discovery of streams.
 - SDP stream description import and export
 - Limited to Ethernet interfaces 1 and 2.
- Dante Module
 - Audio over IP networking hardware upgrade.
 - 32x32 audio channels.
 - Supports AES67 for interconnection with Ravenna, Livewire+, etc.
 - 2 Ethernet interfaces to support redundancy

- Ravenna Module
 - Audio over IP networking hardware upgrade.
 - 32x32 audio channels.
 - Supports AES67 for interconnection with Dante, Livewire+, etc.
 - 2 Ethernet interfaces to support redundancy
 - NMOS
- POTS Module (until 2023)
 - 2 modules with 4 channels each
 - 8 POTS channels per unit
- 8 x FXO Ports VoIP/POTS Gateway
 - 8 POTS channels per unit
 - Connects to the THipPro via predefined VoIP accounts.
- ISDN Module
 - 1 or 2 modules with 8 channels each
 - Up to 16 ISDN channels per unit



Optional Features (4)

- Ember+ Consumer Extension
 - Connect up to 16 DHD Cores using Ember+ and DHD SetLogic.
 - Full call control and display of caller information and audio level via DHD user interfaces.
 - Single licence per workplace.
- Ember+ Dial Pad Extension
 - Connect up to 16 Lawo Cores using Ember+.
 - Call control and display of caller information via Lawo user interfaces
- DTMF Analyser
 - Game Show and Event Mode
- Social Media Server
 - X (TWITTER) integration into LAN client and Screener

- Competition Management
 - Manage competitions from the MAGIC Screener software
 - Price contingents and handed out prices are managed automatically.
 - Create result lists for accounting or attendee lists for events.
- Redundant Power Supply
 - Additional socket for an external power adapter.
 - Power adapter included.

Optional Features (5)

- Collaboration Services
 - Run on a local server using the Microsoft IIS platform
 - A server can connect multiple telephone hybrids.
 - Adds Microsoft Teams and WebRTC connectivity to regular telephone lines
 - Integrated with the phone book
 - High audio quality (outperforms HD-Voice)
- Collaboration Services BASIC Licence
 - Enables WebRTC
 - Additional licences for each Collaboration Services channel required.
 - Channel licences for audio only or audio and video available.

- Collaboration Services PROFESSIONAL Licence
 - Enables WebRTC and Microsoft Teams
 - Additional licences for each Collaboration Services channel required.
 - Channel licences for audio only or audio and video available.
- MAGIC Server Legacy
 - Runs on a local server using the Microsoft IIS platform
 - Provides Web clients similar to the THipPro LAN Client and the THipPro Screener to operate MAGIC THipPro devices.

Accessories

- MAGIC PhonerSet
- MAGIC THipPro Handset
- MAGIC THipPro Headset
- USB Headsets
 - For Pretalk Audio Streaming
- USB Handset
 - For Pretalk Audio Streaming
- GSM Gateway
- POTS Gateway





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Software Clients

- MAGIC THipPro LAN
- MAGIC THipPro SCREENER
- MAGIC THipPro News Desk Client



Software Clients

MAGIC THipPro LAN

- Touch optimised Windows PC software
- Single-user licence
- Supporting window sizes between 400x400px and 7680x4068px.
- Automatic scaling for high-DPI screens.
- Special variant: Newsdesk-Client
 - Restricted MAGIC THipPro LAN user interface
 - No ON AIR buttons
 - No system configuration
 - Incl. PRETALK Streaming Licence
- MAGIC THipPro SCREENER
 - Single-user licence (Basic and Extension)
 - Automatic scaling for high-DPI screens.
 - Optional: Social Media Server (currently supported: X (Twitter))

- Up to 20 LAN and Screener clients combined can access the system simultaneously.
- With News Desk Clients the total number of clients is 30. LAN clients and Screener clients are still limited to a total of 20.
- MS SQL Server database backend
 - MS SQL Server 2014 (Express) or higher
 - For phonebook, Screener data, ...
- Each client has direct access to the MAGIC THipPro unit.



MAGIC THipPro LAN Client

- Supporting Windows 10/11 (32/64 Bit)
- 16:10/16:9 touch monitor is recommended
- All channels can be displayed on one screen
- Up to four ON AIR buttons per line
- Level Meter with gain control and AGC
- Two Call Forwarding modes
 - Standard, occupying a reserved channel of the system
 - ECT Explicit Call Transfer
- Free choice of background colours
- Program logo
- Slide-in sidebar for call history, recordings, chat and answering machine.



MAGIC THipPro SCREENER Client

- Supporting Windows 10/11 (32 Bit)
- 16:10/16:9 touch monitor is recommended
- Multiple operation modes
 - Screener, Presenter, (Presenter ON AIR), Data Editing only, Call Out
- Level Meter
- Full control of the hybrid system
- MS ACCESS based Front End
- Colours of the design can be adjusted
- Program logo







Resources

- AVT MAGIC THipPro devices come with a USB Flash Drive which contains:
 - MAGIC THipPro LAN PC software
 - MAGIC THipPro Screener PC software
 - Microsoft SQL Server 2019 Express
 - Microsoft SQL Tools
- The latest versions of MAGIC THipPro LAN and MAGIC THipPro Screener are freely available in the download section of our website <u>http://www.avtnbg.de</u>.
- Also check the DOCUMENTS and QUICK GUIDES sections for further information.

Audio Video Technologies	Products Downloads Support News 🎯 DIST	TRIBUTORS 💫 CONSULTATION EN 🔻
CATEGORIES Datasheets & Catalogues Documentations	Software In this area the latest firmware and PC Software for your system can be downloaded.	
Quick Guides Software	Telephone Hybrids MAGIC Hybrid Manager (v1.020)	EXE, 14.99 MB, 19.07.2019 📋
PERSONAL ADVICE	MAGIC PhonerSet (v1.005) MAGIC TH1 GO (v1.501)	APK, 3.97 MB, 31.03.2020 📋 SSW, 2.32 MB, 25.03.2020 📋
	MAGIC TH2plus (v3.110) MAGIC TH2plus Intercom (v2.420)	EXE, 5.35 MB, 19.02.2020 🔋 EXE, 3.73 MB, 27.07.2018 🔋
	MAGIC TH6 (v3.110) MAGIC TH6 Intercom (v2.420)	EXE, 5.59 MB, 19.02 2020
	MAGIC THipPro LAN (v3.210)	EXE, 8.60 MB, 20.02.2020
	Audio Codecs	LAC, 10.24 MD, 19.02.2020 🧧
	MAGIC ACip3 (v2.021) MAGIC DC7 XIP & AC1 XIP (v5.207)	EXE, 11.60 MB, 13.12.2019 📋



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Typical applications

- Basic application
- Application with two studios
- Application with ADMIN Upgrade
- Application with redundancy



Basic application with MAGIC THipPro





Application with two studios



Application with ADMIN Upgrade



Application with redundancy





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Quality of Service & VoIP

- VLAN
- DiffServ / DSCP
- Tipps & Tricks



Prioritising VoIP packets

- There are three ways of prioritising the "VIPs" = "Very important packets":
 - Use of a separate network for VoIP
 - Prioritisation on Ethernet level (Layer 2)
 - VLAN (Virtual LAN)
 - Standard IEEE 802.1Q
 - Priority levels
 - Prioritisation on IP level (Layer 3)
 - QoS (Quality of Service)
 - Different service classes
 - Standard RFC3168
- Important: the prioritisation can only be guaranteed in the local network
VLAN – Virtual Networks

- Virtual LANs can only exist in a VLAN-aware network environment (Switches, etc).
- Splitting of physical networks into logical subnetworks.
- Switches that support VLAN ensure that packets of one VLAN are not forwarded to another VLAN.
 - More efficient use of bandwidth.
- 4 Byte of information is inserted into each Ethernet packet allowing the switch to assign a packet to a VLAN.

 Signalling of a priority class in a 3-bit field:

	Priority	Bit pattern	Class of Service	
	0	000	No prioritization	
	1	001	Background services	
	2	010	Reserved	
	3	011	General data services	
	4	100	Control services	
	5	101	Video	
NИ	6	110	Voice	
VL	7	111	Network control	
Static VLANs – Port-based, Untagged				

Tagged VLANs

Port-based VLANs

- Dedicating a switch port to a single VLAN.
 - Only one VLAN can be assigned to a Switch Port
 - Exception: trunk ports
 - Only devices connected to switch ports that are serving the same VLAN can communicate with each other.
 - The switch adds the VLAN identifier to each received packet.
 - The switch removes the VLAN identifier from each packet to be sent.
 - The VLAN is completely transparent.
 - Connected devices don't need to support VLANs.
 - No payload restrictions.



Tagged VLANs

- Several VLANs can be assigned to one Switch Port.
- Connected devices must support VLAN:
 - Adding the VLAN identifier
 - Decoding the VLAN identifier
- Switches do not add or remove VLAN identifiers.
- Advantage of this solution: Systems with only one LAN interface can be connected to several virtual networks.
 - E.g. helpful when separating VoIP and PC zones.





QoS - Quality of Service on IP level

- End-to-end QoS is only possible when it is supported by all network elements.
- RFC2474 defines Differentiated Services (DiffServ), a mechanism to classify network traffic.
- The 8-bit Differentiated Services Field (DS-Field) is part of the IPv4 header. It contains:
 - DSCP: The 6-bit Differentiated Services Code Point is used to classify the payload of the IPv4 packet.
 - ECN: The remaining 2 Bits are reserved for flow control which is not supported by MAGIC THipPro. (default value = 0)

- Typical values used for VoIP are:
 - DS field

 DSCP
 ECN

 7
 6
 5
 4
 3
 2
 1
 0
 - SIP
 - DiffServ = 104dec
 - Corresponds to: DSCP = 26dec



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Integration of an IP Telephone Hybrid System into the studio environment

- Guidelines for migrating from ISDN to VoIP
- Basic requirements
- External VoIP Provider?
- Concepts

Basic requirements

- Separation of "PC" network and VoIP telephone network
 - Use separate network interfaces.
 - Use VLAN with prioritization.
 - Many Switches already offer an integrated Voice VLAN configuration (Cisco, HP, Netgear etc.)
- Use QoS in the LAN.
- Avoid firewalls between PBX and VoIP systems/telephones.
- Minimize the number of Switches between the PBX and VoIP systems/telephones.
- Avoid VPN tunnels since they cause a higher latency and increase bandwidth requirements.
- Provide sufficient bandwidth for telephony in each part of the network.

VoIP-Provider vs. ISDN PRI

- ISDN primary rate interfaces (PRIs) become rare. Often, they are just adaptors to the providers VoIP network.
- Only native VoIP services support HD-Voice.
- Note: Deutsche Telekom transcodes mobile HD-Voice (AMR-WB) to landline HD-Voice (G.722) and vice versa in their network.
- Make sure to have call filtering in place either on the provider's side or on a local PBX to handle high call volumes.



Network concept





Initial Setup

MAGIC THipPro MAGIC THipPro Pure



Initial Setup

- Connect the MAGIC THipPro to the mains.
- Configure the IP address of the LAN interface via the front display as shown on the right.
 - The MAGIC THipPro can be configured to use DHCP later via the PC software on the LAN INTERFACE configuration page.
- Subsequently also configure SUBNET MASK and DEFAULT GATEWAY of LAN interface 1.
- Connect the socket LAN 1 of the device with the Ethernet network and connect the PC software.
- All further configurations should be done using the PC software.



Connecting the software

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MAGIC THipPro LAN Client (1)

- Run the MAGIC THipPro LAN setup.exe to install the software.
- Run the software as administrator.
 - Right click the MAGIC THipPro LAN Client icon on the desktop and select Run as administrator.
- Connect the MAGIC THipPro to the local network.
- In the MAGIC THipPro LAN Client software open MENU – CONFIGURATION – CONTROL INTERFACE.
 - INTERFACE: Select UDP.
 - PARAMETER INTERFACE: Select the network interface of the PC which has access to the unit.
 - PARAMETER IP-ADDRESS: Enter the IP address of the MAGIC THipPro (default: 192.168.96.102). Get the current IP address from the MAGIC THipPro's front display by pressing the HANG UP button (to the right of the OK button) repeatedly.
 - PARAMETER PORT: Enter the control port of the MAGIC THipPro (default: 10000).

Communication In	terface Parameter		×
Interface: Parameter	UDP	~	
Interface:	<default></default>		~
IP Address:	172.20.30.35		
Port:	10000		
	ОК	Cancel	
	OK	Cancel	



MAGIC THipPro LAN Client (2)

- If the LAN Client software doesn't get an answer from the MAGIC THipPro, it will show NO CONNECTION in the upper right corner.
- When the LAN Client software connects to a MAGIC THipPro with factory settings the main panel is empty.
- Click MENU CONFIGURATION SYSTEM to start configuring the MAGIC THipPro.







MAGIC THipPro News Desk Client

- Install the MAGIC THipPro LAN Client software on all PCs which act as News Desk Clients.
- Whether the LAN Client software acts as LAN Client or News Desk Client is distinguished by the settings made on the CLIENT / SECURITY configuration page of the MAGIC THipPro system configuration.
- The LAN Client software adopts the role of the News Desk Client, if required, when it connects to the system.

MAGIC THipPro Screener Software (1)

- Run the MAGIC THipPro Screener setup.exe to install the software.
- Run the software as administrator.
 - Right click the Screener Login icon on the desktop and select Run as administrator.
- Connect the MAGIC THipPro to the local network.
- Click the Menu icon () in the top left corner and open LOCAL CONFIGURATION – GENERAL.
 - INTERFACE: Select the network interface of the PC which has access to the unit.
 - IP-ADDRESS: Enter the IP address of the MAGIC THipPro (default: 192.168.96.102). Get the current IP address from the MAGIC THipPro's front display by pressing the HANG UP button (to the right of the OK button) repeatedly.
 - PORT: Enter the control port of the MAGIC THipPro (default: 10000).
 - ALIAS: Optionally enter a name for the THipPro.

General	Connect to						
Operation	Interface:	ASIX AX88179 US	B 3.0 to Giga	bit Ether	net Adapter / 172.20).10.18 - Priva	te 🗸
	IP Address:	172.20.30.35	Port:	10000	Alias:		
Screener	Backup syste	m available: 🗌					
Presenter	IP Address:		Port:	10000	Alias:		
Pretalk	Computer Na	ame Alias:			Use Pretalk:	Default	\sim
Annearance							



MAGIC THipPro Screener Software (2)

- If the Screener software doesn't get an answer from the MAGIC THipPro, it will show NO CONNECTION in the upper left corner.
- When the Screener software connects to a MAGIC THipPro with factory settings the main panel is empty.
- Click MENU SYSTEM CONFIGURATION to start configuring the MAGIC THipPro.





System Settings

These settings can be stored in Super Presets.

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General (1)

Local		
	General	
MAGIC THipPro ACip3 1 - Operation Settings - Clients / Security - Studio Definition - Database - News Desk Pool - Mode & Audio Line - Internal HOLD Signals - Studio Audio Assignment - Clients Audio Assignment - Clients Restrictions - Signal Processing - Line Labels	Display Language English Front Keypad Image: Contrast: Backlight: On Contrast: 8	
	System Name: MAGICTHipPro Index: 0 = Standard ~	
General Line Interface Caller Line Grouping VolP (LAN/SIP) 		

General (2)

- Configure the basic system parameters on the GENERAL page.
- DISPLAY LANGUAGE: The front display of the MAGIC THipPro supports two languages:
 - ENGLISH
 - GERMAN
- FRONT KEYPAD KEY TONE: Enable the key click.
- DISPLAY: Set the parameters of the front display:
 - BACKLIGHT:
 - AUTO: Turns on when a key is pressed and turns off after a few seconds.
 - ON: Permanently on.
 - CONTRAST: Adjust the contrast to improve the clarity of the front display.

SYSTEM

- NAME: Enter a system name which is used:
 - to identify the device in the optional MAGIC SYSTEM MANAGER.
 - to address the device in the CONTROL INTERFACE configuration.
 - as the SIP display name.
 - request an IP address via DHCP.
 - to identify the system via the front display.
- INDEX: The system index is only used if multiple MAGIC THipPro systems use the same phonebook. All systems connected to a common phonebook database will show the same phonebook entries. But call history entries are stored with the system index.
 - MAGIC THipPro systems with different indexes will not show each other's call history.
 - MAGIC THipPro systems using the same index will show the same call history.

Line Interface (1)

lon	fictura	tion

Configuration	
Local	Line Interface
MAGIC THipPro ACip3 1	
🖃 Operation Settings 📃 🔺	
Clients / Security	
Studio Definition	Drop not answered incoming/outgoing calls after 90 seconds
Database	
News Desk Pool	Channels
Mode & Audio Line	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
Internal HOLD Signals	
Studio Audio Assignment	E.164 Lines
Clients Audio Assignment	
Clients Restrictions	
Signal Processing	Collaboration Services 🗸 🗸 🗸 🗸
Chudia Cattinum	
Auto Apover	
Intro / Data Privacy Quany	
Answering Machine	
- DTMF	sip:anonymous@ <registrar></registrar>
Actions	
	PBX/Exchange line configuration
- Ember + Consumer Extensior	International prefix: 00 (Default value: 00) Local Country Code: + 49
Ember + Dial Pad Extension	National prefix: 0 (Default value: 0) Local Area Code: 0 911
🚊 System Settings	Anonymous Call signalling:
General	
Caller Line Grouping	Inhouse Lines
VoIP (LAN/SIP)	VolP
Collaboration Services	Length of extension:
- Audio Interface	Outgoing line prefix:
PRETALK Streaming	PBX number: 5271
AESO/	Skip outgoing line prefix on incoming calls:
LAN INTERFACE	User enters outgoing line prefix on manual calls
Client ID: 1 Studio: 1	OK Abbrechen Apply Now

Line Interface (2)

- Configure the basic parameters for connecting to the telephone network on the LINE INTERFACE page.
- LINE MODE: Specifies the type of telephone network the MAGIC THipPro is connected to.
 - VOIP (LAN/SIP): Voice over IP provides digital audio transmission over IP networks. The audio quality is automatically negotiated at call setup. MAGIC THipPro supports two algorithms:
 - G.711 (3.4 kHz audio bandwidth)
 - G.722 (HD-Voice, 7 kHz audio bandwidth with HD-Voice software upgrade).
 - For incoming calls, the MAGIC THipPro always uses the best algorithm which is supported by the calling station.
 - ISDN: Integrated Services Digital Network provides digital audio transmission. Requires the ISDN hardware upgrade. THipPro supports up to two ISDN modules with eight channels each.

- POTS: Plain Old Telephone Service provides analogue audio transmission with 3.1 kHz audio bandwidth. Requires the POTS hardware upgrade which consists of two modules providing four channels each.
- ISDN & VOIP (LAN/SIP): Mix ISDN and VoIP channels. The line mode can be specified for each channel separately. The number of ISDN and VoIP channels does not add up.
- POTS & VOIP (LAN/SIP): Mix POTS and VoIP channels. The line mode can be specified for each channel separately. The number of POTS and VoIP channels does not add up.
- POTS GATEWAY 4/8 LINES: Allows for connecting the THipPro via predefined VoIP accounts to a POTS gateway with up to 8 analogue telephone lines. The POTS gateway must be purchased from AVT.



Line Interface (3)

- PERMANENT ACTIVATION OF ISDN LAYER 2: Activate this option if the first in a series of calls cannot be established or incoming calls are not detected. Only available in line modes ISDN and ISDN & VOIP (LAN/SIP).
- ENABLE ISDN HD CALL: Shows extra buttons for making ISDN calls using the HD-Voice (G.722) algorithm. ISDN HD is not compatible with standard ISDN telephones since it establishes an ISDN data connection. A call set up as data connection cannot automatically switch to voice transmission. Only available in line modes ISDN and ISDN & VOIP (LAN/SIP) with activated HD-Voice license.
- ISDN PROTOCOL: Select the ISDN protocol supported by the PBX or ISDN provider. Only available in line modes ISDN and ISDN & VOIP (LAN/SIP).
 - EURO ISDN
 - USA ISDN (NI-1)
 - JAPANESE ISDN
- DROP NOT ANSWERED INCOMING/OUTGOING CALLS AFTER 90 SECONDS: The THipPro automatically ends unanswered calls after 90 seconds.



Line Interface (4)

- Specify parameters for each telephone line in the CHANNELS matrix:
 - E.164 LINES: Activate this option if the PBX requires the THipPro to dial numbers in an internationally unique format according to ITU-T recommendation E.164. (E.g., +49 911 5271 110)
 - IN-HOUSE LINES: Specify lines connected to a PBX. Required to distinguish between internal and external calls. Prefix digits for dialling external telephone numbers are automatically inserted when configured in the PBX / EXCHANGE LINE CONFIGURATION.
 - COLLABORATION SERVICES: Activate this option if the line should also register with the MAGIC Collaboration Server. The lines become available via Microsoft Teams. VoIP can be used in parallel on these lines.
 - CALL FORWARDING LINES: Required for network independent call forwarding. These lines don't appear on the main panel and are reserved for

establishing connections to a forwarding destination. The line is blocked until all participants have hung up. The number of call forwarding lines determines the number of simultaneous calls that can be forwarded.

• VOIP LINES: In a mixed mode with POTS or ISDN, check channels which should use the VoIP mode.



Line Interface (5)

- ANONYMOUS CALLING: Checked channels signal "Anonymous" instead of the phone number or Display Name to keep the number secret. Whenever possible, this should rather be configured in the PBX or on the provider's side.
 - NOTE: Some VoIP providers / SIP servers block devices that hide their identity.
- Two formats for anonymous calling can be used by the THipPro. They define how the own number is transmitted to the SIP server. The format to be used is determined by the VoIP provider.
 - sip:anonymous@anonymous.invalid
 - sip:anonymous@<registrar>
 (where <registrar> is the SIP server entered for that
 line on the VoIP (LAN/SIP) configuration page)
- REJECT ANONYMOUS INCOMING CALLS: Check a line so that THipPro Lite rejects calls that do not contain the caller's phone number.

Line Interface (6)

- The PBX / EXCHANGE LINE CONFIGURATION section specifies the basic local telephone number format.
 - INTERNATIONAL PREFIX: Prefix digits for dialling international telephone number. (default: "00", don't set to "+")
 - NATIONAL PREFIX: Prefix digits for dialling long distance telephone numbers. (default: "0")
 - LOCAL COUNTRY CODE: Required for E.164 mode. The THipPro adds the country code automatically to telephone numbers on outgoing calls if it is not provided by the user.
 - LOCAL AREA CODE: Required for E.164 mode. The THipPro adds the area code automatically to telephone numbers on outgoing calls if it is not provided by the user.
 - ANONYMOUS CALL SIGNALLING: If callers don't want to disclose their phone number, the number is in most cases replaced by "Anonymous". Other replacement texts are possible. Enter these other

keywords here, so the THipPro displays these callers as anonymous.

 IGNORE SIP DISPLAY NAME OF CALLER: VoIP calls signal not only the phone number but also the SIP DISPLAY NAME, which can be entered by users. The MAGIC THipPro interprets the SIP display name as the caller's name. However, often the SIP display name carries useless information. The SIP display name is ignored by the THipPro when this setting is enabled.



Line Interface (7)

- The INHOUSE LINES section specifies the format of internal numbers and the numbers to connect to the outside world. These settings apply to channels marked as IN-HOUSE LINES.
 - LENGTH OF EXTENSION: Number of digits of internal phone numbers.
 - OUTGOING LINE PREFIX: Prefix digit inserted before the number to dial external phone numbers.
 - PBX NUMBER: The office / trunk number. Required in mixed line mode (ISDN/POTS & VoIP) or if some but not all channels are in-house lines.
 - SKIP OUTGOING LINE PREFIX ON INCOMING CALLS: Some PBXs signal the calling party's number including the prefix digits, some don't. Set this option so, that the number of incoming calls is displayed without the prefix digits in the PC software.
 - USER ENTERS OUTGOING LINE PREFIX ON MANUAL CALLS: Enable if the users should enter the prefix digits when dialling a number using the number pad. If unchecked the MAGIC THipPro adds the prefix digits automatically.

MSN (1)

Configuration				×
Local MAGIC THipPro	MSN			
Operation Settings				
Clients / Security	MSN			
Studio Definition	Line	MSN		
Database	1			
Mode & Audio Line				
Internal HOLD Signals	2			
	3			
Clients Audio Assignment	4			
Cliente Postrictione	5	305		
Signal Processing	6	306		
	7	307		
	8	308		
Auto Answer	9			
Intro / Data Privacy Query	10			
Answering Machine	11			
Night Service	12			
DTMF	13			
Actions	14			
Ember - Concumer Extension	15			
System Settings	15	210		
General	16	316		
Line Interface				
Caller Line Grouping				
<mark>MSN</mark> VoIP (LAN/SIP)				
- Audio Interface				
PRETALK Streaming				
LAN Interface				
VLAN				
DHD Audio Matrix				
Ember+				
PhonerSet / Remote Light				
Client ID: 9 Studio: 2				OK Cancel Apply Now

MSN (2)

 The MSN page is displayed only if there are ISDN channels configured on the LINE INTERFACE page.

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- Enter an MSN (Multiple Subscriber Number) for each ISDN channel connected to the MAGIC THipPro.
 - The MSN sometimes is the internal telephone number (extension). For more information, refer to the PBX manual or the provider's documentation



POTS Phone Numbers (1)

Configuration				>
Local MAGIC THipPro	POTS Phone Number	5		
Operation Settings Clients / Security	POTS Phone Numbe	216		
Studio Definition	Line	POTS Phone Numbers		
Database	1	301		
Mode & Audio Line	2	202		
Internal HOLD Signals	2	302		
Cliente Audio Assignment	3	303		
DhonorSet Audio Assignment	4	304		
Clients Restrictions	5	305		
Signal Processing	6	306		
	7	307		
Studio Settings	8	308		
Auto Answer				
Intro / Data Privacy Query				
- Answering Machine				
- Night Service				
DTMF				
Actions				
Ember + Consumer Extension				
🖨 System Settings				
General				
Line Interface				
Caller Line Grouping POTS Phone Numbers				
POTS Interface : PBX				
POTS Interface : Outside Line				
VoIP (LAN/SIP)				
AES67				
AC30/				
VIAN				
Client ID: 9 Studio: 2			OK	Cancel Apply Now

POTS Phone Numbers (2)

- The POTS PHONE NUMBERS page is displayed only if there are POTS channels configured on the LINE INTERFACE page.
- There is no technical necessity to specify the POTS phone numbers.
- Enter the POTS phone numbers if you like to display them in the line labels. On the LINE LABELS page you may use the {lineid} wildcard to display the POTS phone number.



POTS Interface: PBX / Outside Line (1)

Configuration		
Local MAGIC THipPro	POTS Interface : PBX	
Operation Settings Clients / Security	POTS : PABX	
Studio Definition	Country Setting: Germany ~	
Database Mode & Audio Line	Wait for received phone number (CLIP) before call in signalling	
Internal HOLD Signals	Drop when busy tone detected	
Studio Audio Assignment Clients Audio Assignment	Loop-Break Timeout:	300 msec
PhonerSet Audio Assignment	Hook Flash Duration:	200 msec
Clients Restrictions	BUSY/DROP Tone:	
- Line Labels	Tone Duration:	400 msec Measure
Studio Settings	Pause Duration:	400 msec Values
Auto Answer Intro / Data Privacy Query	Enable Expert Settings	
Answering Machine Night Service	High pass filter cut off frequency	
DTMF	Receive:	300 Hz
Actions	POTS line level adjustment	
Ember + Consumer Extension	Receive:	0 dB
System Settings	Transmitt:	— 0 dB
General		
- Caller Line Grouping		Default Settings
POTS Phone Numbers		
POTS Interface : PBX POTS Interface : Outside Line		
VoIP (LAN/SIP)		
Audio Interface		
PRETALK Streaming AES67		
LAN Interface		
VLAN 🗸		
lient ID: 9 Studio: 2		OK Cancel Apply Now

POTS Interface: PBX / Outside Line (2)

- The POTS INTERFACE pages are displayed only if there are POTS channels configured on the LINE INTERFACE page.
- The POTS interface parameters for channels connected to a PBX are configured on the POTS INTERFACE: PBX page.
- The POTS interface parameters for channels connected directly to the public telephone network are configured on the POTS INTERFACE: OUTSIDE LINES page.
- The parameters are the same for both variants:
 - COUNTRY SETTING: Defines the POTS interface's impedance. Finding the correct setting is crucial to minimize echo. Set the country of your location or use the country of manufacture of the PBX as a guideline.
 - WAIT FOR RECEIVED PHONE NUMBER (CLIP) BEFORE CALL IN SIGNALLING: The calling party's phone number is signalled between the first and the second ringing. Enable this setting the incoming call should be ignored until the second ringing. The call will be visible from the second ringing even if no phone number is detected.

- DROP WHEN BUSY TONE DETECTED: Enable if the system should drop the call automatically when the disconnected tone (busy tone) is heard on the telephone line. You may define a custom tone or the measure the tone in the BUSY / DROP TONE section.
- LOOP-BREAK TIMEOUT: Defines the minimum time the loop current of the telephone line must be interrupted for the MAGIC THipPro to drop the call. Short interrupts are used to signal events in the network (e.g. initiate call forwarding). Longer interrupts indicate a problem in the network. When the timeout is set too low, accidental disconnects may happen. (default: 300ms)
- HOOK FLASH DURATION: A hook flash signals the network that a device wants to forward a call. Adjust the hook flash duration if there are problems forwarding calls.



POTS Interface: PBX / Outside Line (3)

- BUSY / DROP TONE: The MAGIC THipPro can detect if the remote station has hung up. It is monitoring the audio signal for a sequence of tones and pauses with defined duration. The sequence might be different for every PBX or provider.
 - TONE DURATION: Specify a custom tone duration.
 - PAUSE DURATION: Specify a custom pause duration.
 - MEASURE VALUES: Click the button to measure the actual sequence and set it as custom tone and pause duration. To measure the values correctly make sure the drop tone can be heard on the first telephone line connected to the PBX or to the public network, respectively.
- ENABLE EXPERT SETTINGS: Help to improve the audio signal on telephone lines with difficult line characteristics.

- HIGH PASS FILTER CUT-OFF FREQUENCY RECEIVE: Sounds below this frequency are filtered out (e.g. low frequency hum).
- POTS LINE LEVEL ADJUSTMENT
 - RECEIVE: Increase the value to amplify the audio signal coming in from the telephone line. Decrease the value if the audio is distorted.
 - TRANSMIT: Increase the value to send a louder signal. Decrease the value if the audio signal sounds distorted at the remote station.
- DEFAULT SETTINGS: Resets all values on the page to factory settings.



Caller Line Grouping (1)



Caller Line Grouping (2)

- Bundle telephone lines into groups on the CALLER LINE GROUPING page.
- Telephone lines of a group have:
 - the same configurable background colour.
 - a common button on the main panel for:
 - dropping calls.
 - locking lines.
 - enabling Voice Disguise.
 - enabling Night Mode.
 - enabling the Answering Machine.
 - a common audio line for Auto Answer.
 - common Intro / Data Privacy Query parameters.
 - additional GPIO functions.
- NAME: Enter a name for the line group.
- COLOUR: Define the colours for each line group. Click the coloured rectangle to open the colour configurator:

- BACKGROUND COLOUR: Click the coloured rectangle to select a background colour for the channels.
- LUMINANCE DIFFERENCE: Side by side channels are easier to identify if they have slightly different colors. This setting changes the brightness of the selected background color for every second channel.
- TEXT COLOUR: Set the colour of all text displayed on the selected background colour to BLACK or WHITE.
- SET DEFAULT: Set all colours to default values.



Caller Line Grouping (3)

- CHANNELS: Assign channels to line groups:
 - Each channel can only be assigned to one line group.
 - Channels of a line group need not to be continuous.
 - Channels not assigned to a specific line group remain in the UNASSIGNED line group.
 - The line group UNASSIGNED has all the characteristics of the other line groups except the color choices.
 - Call forwarding lines (CF) cannot be assigned to a line group.


VoIP (LAN/SIP) (1)

Configuration

Local	VoIP (LAN,	/SIP)											
MAGIC THipPro ACip3 1													
- Signal Processing	Line	LAN	SIP Server	LAN	Backup Server	TCP	STUN	User Name	User Authen	Password	Audio	Displayed	DTMF Tx
Line Labels Studio Settings	Line 1	1 🝷	172.20.20.2	1 🝷]			301		***	5004		Inband
- Auto Answer	Line 2	1 🔻	172.20.20.2	1 -]			302		***	5006		Inband
Intro / Data Privacy Query	Line 3	1 🕶	172.20.20.2	1 -				303		***	5008		Inband
Answering Machine	Line 4	1 -	172.20.20.2	1 -]			304		***	5010		Inband
- DTMF	Line 5	1 -	172 20 20 2	1 -	1			305		***	5012		Inhand
Actions	1		170.00.00.0		1			000		***	5014		
Telephone Client Application	Line 6	1	172.20.20.2	1 -			ļ	306		000	5014		Inband
GPIO	Line 7	1 -	172.20.20.2	1 -				307		***	5016		Inband
Ember + Consumer Extension	Line 8	1 🔹	172.20.20.2	1 🔻				308		***	5018		Inband
ystem Settings	Line 9	1 🔻	172.20.20.2	1 -]			309		***	5020		Inband
General	Line 10	1 🕶	172.20.20.2	1 -				310		***	5022		Inband
Caller Line Grouping	Line 11	1 -	172.20.20.2	1 -	1			311		***	5024		Inband
VoIP (LAN/SIP)	Line 12	1 -	172.20.1.2	1 -]			312		***	5026		BFC 2833
Collaboration Server	Line 12	1	172 20 1 2	1	1			212		***	5020		DEC 2022
Audio Interface	Line 13	· ·	172.20.1.2	1 4]			313			3020		NFC 2033
PRETALK Streaming	Line 14	1 -	172.20.1.2	1 -				314		×××	5030		RFC 2833
LAN Interface	Line 15	1 🝷	172.20.1.2	1 🝷]			315		***	5032		RFC 2833
NTP	Line 16	1 🔻	172.20.1.2	1 👻]			316		***	5034		RFC 2833
VLAN							-						
DHD Audio Matrix Ember+ PhonerSet / Remote Light	-VolP Pa	arameter	3	1	1		1		Registration			Set De	fault Audio Po
ACconnect	Payl	load Time	e:	_			20	msec	Delay bet	ween SIP lines:	0	msec	(04000)
- Stream Quality Measuremen		λ-Law/μ-l	Law Signalling on	incoming	G.722 calls				Timeout:		60	sec	(60500)
SNMP	u	Jse first o	odec of SDP aud	dio codec	list as default								
ystem Login	Πι	Jse indivi	idual local SIP po	rt numbers	Start port:	6060	Sh	ow SIP Ports					

VoIP (LAN/SIP) (2)

- Enter the SIP credentials for each telephone line as well as SIP protocol parameters on the VOIP (LAN/SIP) page.
- The MAGIC THipPro provides up to 16 VoIP channels which are completely independent from each other. The parameters must be defined for each VoIP line:
 - LINE: Shows the number of the telephone line.
 - LAN: LAN interface of the MAGIC THipPro which connects to the primary SIP server.
 - SIP SERVER: Primary SIP server. May consist of three parts. Only SIP-Server is mandatory: proxy@SIP-Server:port
 - PROXY: IP address or host name of the proxy server.
 - SIP-SERVER: Also referred to as REALM or REGISTRAR. IP address or host name.
 - PORT: Server port of the SIP protocol. May be omitted if the default port 5060 is used.

- LAN: LAN interface of the MAGIC THipPro which connects to the backup SIP server.
- BACKUP SERVER: The MAGIC THipPro monitors constantly if the primary SIP server is available. If not it switches to the backup SIP server. When the primary SIP server becomes available again, the MAGIC THipPro switches back to the primary SIP server. See SIP SERVER for more information.
- TCP: Enable to use TCP to connect to the SIP server.
 Otherwise UDP is used.
- STUN: Enable if STUN is required by the SIP server. Specify the STUN server for the LAN interfaces of primary and backup SIP server on the LAN INTERFACE page.



VoIP (LAN/SIP) (3)

- USER NAME: Identifies the SIP account. Usually, the user name is the phone number of the extension or the public phone number.
- USER AUTHENTICATION: Identifies the user account if a password is needed to access a SIP server. When the user authentication field is left blank, the device will use the user name for authentication.
- PASSWORD: The password for the SIP account.
- AUDIO PORT (UDP): Local UDP port for the audio transmission of this VoIP channel. It is recommended to use only straight numbers. (default: 5004,5006, 5008, ...)
 - SET DEFAULT AUDIO PORTS: Sets the audio ports (UDP) to their default values)
- DISPLAYED NAME: Text entered here will be displayed on the telephones of the callers. Note that PBXs or providers may override the displayed name.
- DTMF TX: DTMF tones are used if you want to transmit digits such as pin codes via a telephone system. With VoIP, there are several ways to transmit DTMF tones. The THipPro supports the transmission via an INBAND audio signal or via RFC2833. Change this setting if receivers such as conference systems do not accept the code.

- VOIP PARAMETER:
 - PAYLOAD TIME: Set the size of transmitted audio packets. Fixed at 20 ms for best compatibility with public telecommunication providers.
 - A-LAW/µ-LAW SIGNALLING ON INCOMING G.722 CALLS: Enable this settings if audio is missing or broken when forwarding calls or when receiving forwarded calls. This problem might occur when one of the participants is not capable of HD-Voice (G.722) and the PBX is not aware of that.
 - USE FIRST CODEC OF THE SDP AUDIO CODEC LIST AS DEFAULT: Enable this settings if phones call which announce a list of supported audio codecs but only work when the MAGIC THipPro selects the first algorithm from the list.

VoIP (LAN/SIP) (4)

- USE INDIVIDUAL LOCAL SIP PORT NUMBERS: Enable this setting if a SIP server requires the MAGIC THipPro to use a different local SIP port for each VoIP line.
 - START PORT: SIP port used for the first VoIP channel. Further VoIP channels get straight SIP ports in ascending order. Try to avoid having port 5060 assigned to one of the lines.
 - SHOW / HIDE SIP PORTS ①: Click to show the automatically assigned SIP ports in the table above ②. Click again to change the view of the table again. The view also changes back again after 20 seconds with no user input.
- TABLE IN PORT VIEW
 - LINE: Shows the number of the telephone line.
 - SIP SERVER: Primary SIP Server. The remote SIP port can be changed here by appending ":<port>"
 - USE LOCAL PORT 5060: Enable for lines which must not use individual SIP port numbers.
 - LOCAL SIP PORT: Shows the local SIP port assigned to the VoIP line. Ports are derived from the START PORT or local port 5060 is used if enabled.
 - REMOTE SIP PORT: Shows the remote SIP port assigned to the VoIP line. Change the port in the SIP SERVER column.

onfiguration

Local	VoIP (LAN/S	SIP)			
MAGIC THipPro ACip3 1		1			
Signal Processing	Line	SIP Server	Use local port 5060	Local SIP Port	Remote SIP Port
Line Labels	Line 1	172.20.20.2		6060	5060
- Auto Answer	Line 2	172.20.20.2		6062	5060
Intro / Data Privacy Query	Line 3	172.20.20.2		6064	5060
- Answering Machine	Line 4	172.20.20.2	, 	6066	5060
	Line 5	172 20 20 2		6069	5060
Actions	Lines	172.20.20.2		0000	5000
- Telephone Client Applicatior	Line 6	172.20.20.2		6070	5060
Ember L Concumer Extension	Line 7	172.20.20.2		6072	5060
Ember + Dial Pad Extension	Line 8	172.20.20.2		6074	5060
System Settings	Line 9	172.20.20.2		6076	5060
General	Line 10	172.20.20.2		6078	5060
Line interface Caller Line Grouping	Line 11	172.20.20.2		6080	5060
VoIP (LAN/SIP)	Line 12	172.20.1.2	V	5060	5060
Collaboration Server	Line 13	172.20.1.2		5060	5060
PRETALK Streaming	Line 14	172 20 1 2		5060	5060
AES67	Line 1E	172.20.1.2		5000	5000
LAN Interface	Line 15	172.20.1.2		5060	5060
NTP VLAN	Line 16	172.20.1.2	↓	5060	5060
DHD Audio Matrix					
– Ember+ – PhonerSet / Remote Light – ACconnect – Stream Quality Measuremen – SNMP System Login	−VolP Par Paylo □ A· □ U:	ameter ad Time: Law/µ-Law Signallir se first codec of SDF se individual local SI	20 msec g on incoming G.722 ca ? audio codec list as defa P port numbers	lls ault	1 Hide SIP Ports

VoIP (LAN/SIP) (5)

- REGISTRATION: These settings control the SIP registration process at the SIP server.
 - DELAY BETWEEN SIP LINES: During start-up MAGIC THipPro simultaneously sends a SIP registration telegram for each VoIP channel to the SIP server. If this is overwhelming the SIP server this setting introduces a delay between the VoIP channels.
 - TIMEOUT: The MAGIC THipPro renews the SIP registration every 60 seconds by default to check if the SIP server is still available. Increase the interval if the SIP server rejects the registration telegrams as too soon.

Collaboration Services (1)

Local	Collaboration Services				
MAGIC THipPro ACip3 1	MAGIC Collaboration Servic	es			
	LAN Interface:	LAN 1 · 172 20 225 25			
	MCS PBX Address:	172.20.1.2	Port:	5062	
Signal Processing	MCS API Address:	http://172.20.1.2	Port:	19000	
Line Labels	Device Name:	MAGICTHipPro			
Auto Answer Intro / Data Privacy Query Answering Machine	Disable PCM16 R1	"P Audio			
DTMF Actions					
GPIO GPIO GPIO Group					
System Settings					
General					
Line Interface					
Audio Interface					
PRETALK Streaming					
AFS67					
AN Interface					
NTP					
VIAN					
Ember+					
ACconnect					
Stream Quality Measuremen					
SNIMD					

Collaboration Services (2)

- The MAGIC Collaboration Services (MCS) are a server application developed by AVT. They enable the MAGIC THipPro to make audio and video calls via WebRTC and Microsoft Teams.
- On the COLLABORATION SERVICES configuration page, the connection between the THipPro and the server application is configured.
- Define the telephone lines which should operate as WebRTC or MS Teams lines in parallel to VoIP on the LINE INTERFACE configuration page.
- The connection to the collaboration services consists of two parts:
 - PBX: The audio transmission and call control between the server and the THipPro
 - API: The management of MS Teams contacts and meetings for the THipPro clients.
- LAN INTERFACE: Select the LAN interface of the MAGIC THipPro which should be used to connect to the collaboration services.

- MCS PBX ADDRESS and PORT: Enter the IP address and port of the PBX channel of the collaboration services.
- MCS API ADDRESS and PORT: Enter IP address and port of the API channel of the collaboration services.
- DEVICE NAME: Account name for the THipPro at the collaboration services management application.
- DISABLE PCM16 RTP AUDIO: The audio data of WebRTC and Microsoft Teams calls is routed via the MCS server. By default, the stream is in uncompressed PCM / 16-bit format. Check this option to use audio compression. The audio quality is lower in this mode.



Audio Interface (1)



Audio Interface (2)

- Set the parameters of the analogue and digital audio interfaces on the AUDIO INTERFACE page.
- AES/EBU INTERFACE CLOCK SOURCE OF DIGITAL OUTPUT: The MAGIC THipPro has sample rate converters only on the AES/EBU inputs. The AES/EBU outputs run on the system's audio clock. Systems connected to the MAGIC THipPro via AES/EBU may be required to have sample rate converters on their inputs. This setting specifies the clock to which the system's audio clock is synchronized. Some of the options may be unavailable depending on modules equipped, line mode or audio over IP settings.
 - INTERNAL: Synchronize to the clean internal clock .
 - INTERNAL / DANTE CLOCK: Synchronize to Dante clock if a Dante module is equipped and configured, otherwise the internal clock is used.
 - INTERNAL / RAVENNA CLOCK: Synchronize to Ravenna clock if a Ravenna module is equipped and configured, otherwise the internal clock is used.

- INTERNAL / PTP CLOCK: Synchronize to the AES67 clock if AES67 is enabled, otherwise the internal clock is used.
- INTERNAL / ISDN CLOCK: Synchronize to ISDN clock if an ISDN module is equipped and configured, otherwise the internal clock is used.
- EXTERNAL / CLOCK 1: Synchronize to the external clock supplied through the CLOCK 1 socket on the rear panel of MAGIC THipPro.
- RECOVERED / AES/EBU CLOCK: Synchronize to the clock of the audio signal supplied through the first AES/EBU input where a signal is detected.



Audio Interface (3)

- MAIN NOMINAL LEVEL OF ANALOG (XLR): Use these parameters to adjust the level of analogue audio signals to match the level of the digital audio inputs and outputs.
 - INPUT LEFT / RIGHT: Set the sensitivity of the audio inputs. Decreasing the value increases the audio level and vice versa. (default: 6dBu)
 - OUTPUT LEFT / RIGHT: Set the gain of the audio outputs. Decreasing the value decreases the audio level and vice versa. (default: 6dBu)
 - HEADROOM: Increase the headroom to decrease the analogue audio levels of the inputs to create a safety zone for internal audio mixing. Prevents the audio signal from clipping in the internal mixer. The analog output signal is amplified by the headroom. (default: 9 dBr)

- HANDSET 1/2: Set the audio levels of the handset interfaces on the front panel of the MAGIC THipPro.
 - GAIN IN: Set the input gain for the microphone.
 - GAIN OUT: Set the output gain for the loudspeaker.
- DEFAULT SETTINGS: Sets all levels to the default values.

Pretalk Streaming (1)

guration	DEFTALK C				
	PRETALK Stre	aming			
Database Audio Line	IP Stream	UDP Port			
Studio Audio Assignment	1	5200			
Clients Audio Assignment	2	5202			
PhonerSet Audio Assignmen	3	5204			
Clients Restrictions Signal Processing	4	5206			
Line Labels	5	5208			
Studio Settings Auto Apswer	6	5210			
- Intro / Data Privacy Query	7	5212			
Answering Machine	8	5214			
- DTMF	9	5216			
Actions	10	5218			
GPIO					
····· Ember+ Consumer Extensior vstem Settings				Set Default Audio Ports	
General					
Line Interface					
Caller Line Grouping					
VoIP (LAN/SIP)					
Audio Interface					
PRETALK Streaming					
AES67					
LAN Interface					
DHD Audio Matrix					
Ember+					
PhonerSet / Remote Light					
Chinab					
- SNMP					



Pretalk Streaming (2)

- Configure the technical parameters of pretalk audio streaming on the PRETALK STREAMING page.
 - IP STREAM: Up to 10 streams are available.
 - UDP PORT: Local UDP port for the audio stream. (default: 5200, 5202, 5204, ...)
 - SET DEFAULT AUDIO PORTS: Reset all UDP ports back to default settings.



AES67 (1)

onfic	iura	tion

Configuration		
Local MAGIC THipPro	AES67	
Database A	- 🗹 Activate AES67 streaming	
Mode & Audio Line	LAN Interface:	LAN 1 : 172.20.225.25 💦 🗸
Internal HOLD Signals	PTP Domain:	0 0127
	Disable SAP	
	Quality of Service (DSCP):	
Signal Processing	PTP:	56 (CS 7) V (063) DiffServ: 224dec
Line Labels	RTP:	46 (EF) V (063) DiffServ: 184dec
	Transmission:	
- Intro / Data Privacy Query	Channels:	8 V Export SDP File
Answering Machine	SAP Stream Name:	THIPPRO
DTMF	BTP UDP Port::	5300
GPIO	A	
Ember + Consumer Extensior	Audio Mode:	L24 V
Ember+ Dial Pad Extension	Sampling Rate:	48 kHz ~
⊡- System Settings	Address Mode:	Auto IP Address: 239 1 225 25
Line Interface	Reception:	Update Bx Streams
Caller Line Grouping	Stroom 1:	
VoIP (LAN/SIP)	Stream 1.	TF-USB-Music-1 : 2; 2 channels
	Stream 2:	TF-USB-Music-2: 1; 2 channels V Import SDP File
AES67		
LAN Interface		
- DHD Audio Matrix		
Ember+		
PhonerSet / Remote Light		
Clearly ACconnect		
Lilent ID: 1 Studio: 1		OK Abbrechen Apply Now

AES67 (2)

- Configure the technical parameters of AES67 audio over IP on the AES67 page.
 - Find the details in the Audio over IP (AES67-DANTE-RAVENNA-LIVEWIRE) document available in the download section of our website.



LAN Interface (1)

Configuration		×
Local MAGIC THipPro	LAN Interface	
Database Audio Line	LAN 1 LAN 2 LAN 3 LAN 4	
Internal HOLD Signals Studio Audio Assignment Clients Audio Assignment PhonerSet Audio Assignmen Clients Restrictions Signal Processing Line Labels Studio Settings Auto Answer	Primary IP Address Second IP Address Third IP Address DHCP I72.20.30.35 172.18.12447 172.21.2.12 Sub Net Mask: 255.255.00 255.255.255.0 255.255.255.0 Default Gateway: 172.10.11 172.18.124.1 172.21.2.1 DNS Server: 172.16.1.2 172.18.124.1 172.21.2.1	
	STUN Server Parameters STUN Server: stun.provider.com NAT Keep Alive Interval: 20 sec (560) Quality of Service (DiffServ) Voice: 46 (EF) (063) DiffServ: 184dec SIP: 26 (AF 31) (063) DiffServ: 104dec Default Settings Default Settings	
VoIP (LAN/SIP) Audio Interface PRETALK Streaming	Link Type: Auto Disable Insufficient LAN Alarm	
AES67 <mark>LAN Interface</mark> VLAN DHD Audio Matrix Ember+	UDP Control Port: 10000 Set Default Port Accessible from: LAN 1 : 172.20.30.35 ✓	
Client ID: 9 Studio: 2	OK Cancel Apply Now	

LAN Interface (2)

- Configure the basic parameters for connecting to IP networks on the LAN INTERFACE page.
- The MAGIC THipPro Base Board has two Ethernet interfaces.
- The LAN 3/4 module adds two additional Ethernet interfaces.
- There are three IP addresses available for each LAN interface.
 - You must use the PRIMARY IP ADDRESS to connect to a SIP server when using the VoIP (LAN/SIP) line mode.
 - The second and third IP addresses may be used if VLANs (virtual networks) are enabled.
 - PCs may connect to each Ethernet interface and each IP address of the MAGIC THipPro.
- When using VLANs:
 - Assign a service (Ember+, DHD, SNMP, PC control, ...) to a VLAN on the VLAN configuration page.
 - Assign a service (Ember+, DHD, SNMP, PC control, ...) to an IP address on the corresponding configuration page of the service.

- LAN X: Set IP addresses, STUN parameters and Quality of Service classification for each LAN interface.
 - DHCP: Retrieve an IP address automatically from a DHCP server.
 - IP ADDRESS: Enter a unique IP address. The default settings for the primary IP addresses are:
 - LAN1: 192.168.96.102
 - LAN2: 192.168.96.103
 - LAN3: 192.168.96.104
 - LAN4: 192.168.96.105
 - SUBNET MASK: Enter the bitmask describing the subnet. The default settings for the primary IP addresses are:
 - LAN1-LAN4: 255.255.255.0
 - DEFAULT GATEWAY: Enter the IP address of the router in the local network. The default settings for the primary IP addresses are:
 - LAN1-LAN4: 192.168.96.1
 - DNS SERVER: Enter the IP address of a DNS server. Required to resolve host names of SIP servers and STUN servers.



LAN Interface (3)

- STUN SERVER PARAMETERS: Using a STUN server may be mandatory by the VoIP (SIP) provider. Only one STUN server is required per LAN interface even if the LAN interface is used to connect to multiple providers. Enable STUN for each VoIP account individually on the VOIP (LAN/SIP) configuration page.
 - STUN SERVER: Enter the IP address or the host name of the STUN server specified by the VoIP provider.
 - NAT KEEP ALIVE INTERVAL: Set the time interval at which the MAGIC THipPro sends periodic Keep-Alive packets to the SIP Server. Thus, routers and firewalls keep the SIP communication ports open. This allows the SIP server to notify the device about incoming calls. Keep-Alive packets are only sent if STUN is enabled for the respective SIP account. (default: 20 seconds)
- QUALITY OF SERVICE:
 - See <u>QoS Quality of Service on IP level</u> in this document.
- LINK TYPE: Sets the mode for crossover cable detection. (default: auto)

- DISABLE INSUFFICIENT LAN ALARM: Disables the application alarm that occurs when the Ethernet connection does not provide 100 Mbit/s and full duplex operation.
 - 100 Mbit/s / full duplex is required for audio transmission.
- CONTROL: Configure the parameters of PC control connections.
 - UDP CONTROL PORT: Sets the UDP port all PC software instances connect to. (default: 10000)
 - SET DEFAULT PORT: Resets the UDP control port to the default setting.
 - ACCESSIBLE FROM: Select the Ethernet interface and the IP address of the MAGIC THipPro, to which the PCs should be allowed to connect.
 - In factory settings PC software clients can access all LAN interfaces.
 - It is recommended to select a specific interface to prevent unauthorized access.

NTP (1)

ConfigurationX
Longituding NTP MAGIC THePho ACp31 Image: Labels Enable NTP Studio Settings Alter Answer - Into / Data Pinacy Query Alter Answer - Anto Answer Alter Answer - Anto Surver IAN/P Ad./Port: LAN It 2020/2020 I 220/00/25 v Trippione Client Application System Time: Oth Para Server (LAN/P Ad./Port: LAN 1: 172/20/00/25 v - Telephone Client Application System Time: - General Line Interface - Caller Line Konging - General - Line Interface - PRTAK Streaming - Action Server - Addition Matrix - Finder - DAudio Matrix - Finder - DAudio Matrix - Finder - DAudio Matrix - Finder - Simme - System Lagin v
Client ID: 5 Studio: 4 Abbrechen Apply Now



NTP (2)

- Configure the parameters for Network Time Protocol on the NTP configuration page.
- The THipPro can synchronise its system time to coordinated universal time (UTC) via NTP.
- The THipPro always tries to connect to the PRIMARY SERVER. If that server is not available, it will try to retrieve the time information from the ALTERNATIVE SERVER.
 - LAN: Select the LAN interface of the THipPro which has access to the NTP server.
 - IP ADDR: Enter the IP address of the NTP server. The THipPro does not resolve host names of NTP servers.
 - PORT: Enter the server port. NTP normally uses the UDP protocol on port 123.
 - SYSTEM TIME: Here the current time of the THipPro is displayed.

VLAN (1)

Configuration

Local MAGIC THipPro	VLA	AN							
Studio Audio Assignment Clients Audio Assignment	^	VLAN							
Clients Restrictions		Service	TPID		Priority		VID (12-Bit)		
Signal Processing		PC Control & PBETALK Streaming	802 10 Teg		6 Moice)	-	21		
Line Labels		T C CONTOR AT THE TALK Streaming	002.10139		0 (VOICE)	-	21		-
Studio Settings		VolP	802.1QTag	•	6 (Voice)	•	22		2
Auto Answer		NTP	802.1QTag	-	0 (Default, Best Effort)	-	21		6
Intro / Data Privacy Query		CNMD	002 10 Tag		0 (Default, Peat Effort)		21		
DTME		SNMF	002.1Q1ag	<u> </u>	o (Derault, Dest Errort)	<u> </u>	21		6
Actions		DHD	802.1QTag	•	0 (Default, Best Effort)	•	40		ß
		Ember+	802.1QTag	-	0 (Default, Best Effort)	-	40		0
- Ember+ Consumer Extensior		Bemote Light Protocol	802 10 Tag	-	0 (Default, Best Effort)	-	40		1
Ember+ Dial Pad Extension			002.1010g						-
🗉 System Settings		AES67	802.101 ag	•	6 (Voice)	-	40		ß
General		PhonerSet	802.1QTag	-	6 (Voice)	-	21		8
Line Interface									
Caller Line Grouping									
- Collaboration Services									
- Audio Interface									
PRETALK Streaming									
AES67									
LAN Interface									
<u>NTP</u>									
VLAN									
DHD Audio Matrix									
Ember+									
ACcoppect	М	lodification of the VLAN parameters may in	terrupt the connection	to the	PC!				
Stream Quality Measuremen									
- SNMP									
System Login									
	¥								
ent ID: 1 Studio: 1								ПК	Abbrec
								OK	ADDIEC

 \times

VLAN (2)

- Configure the basic parameters for virtual local area networks on the VLAN page.
 - VLAN: Enable or disable virtual networks globally.
 - SERVICE: All services provided by the MAGIC THipPro which support VLANs are listed here.
 - TPID: Enable or disable VLAN for the specific service:
 - NONE: The service will not carry a VLAN ID and therefor is not part of a VLAN.
 - 802.1QTag: The service will carry a VLAN ID specified in VID and therefore becomes part of that virtual local area network.
 - PRIORITY: Sets a quality of service classification for the service ranging from 0 = lowest priority to 7 = highest priority. It is recommended to set the priority to 6 for services transmitting audio (Pretalk Streaming, VoIP, AES67 and PhonerSet).
 - VID (12-Bit): Sets the VLAN identifier specifying to which VLAN the service belongs. The range is 1-4094.
- Note: Changing the VLAN configuration requires to reconfigure the network switches and routers accordingly. If not done correctly the PC software

will lose connection to the THipPro.

- VLANs may be enabled or disabled globally on the front display of the THipPro under Menu > System Settings > VLAN.
- Find further information on VLANs under <u>VLAN –</u> <u>Virtual Networks</u> in this document.



DHD AUDIO MATRIX (1)

onfiguration								
Local	DHD Audio Matrix							
MAGIC THipPro ACip3 1 Clients Restrictions	Activate DHD A	udio Marix Control						
Signal Processing	Audio Matrix Conne	cuon Farameters:						
Studio Sattingr	LAN Interface:	LA	N 3 : 172.20.32.25	~				
Auto Answer	Redundancy L4	N Interface: LA	N 2 : 172.20.31.25	~				
Intro / Data Privacy Query Answering Machine	TCP/IP Recon	nect Time: 10	seconds (125	5)				
Night Service								
DTMF	DHD Core	IP Address		Redundancy IP Address		TCP/IP Port		
Actions	1	172.20.10.18	Ø		Ø	2008	Ø	Û
. GPIO	2	172.20.10.19	٦	•	ß	2008	Ø	1
Ember+ Consumer Extensior	3		đ	,	Ø	0	Ø	Û
Ember + Dial Pad Extension	4		I IIII IIII IIII IIII IIII IIII IIII IIII	,	Ø	0	Ø	İ
System Settings	5		Ø	,	ß	0	ß	Û
General	6		٦	,	Ø	0	Ø	Û
Collegia Constraine	7		Ø	,	Ø	0	Ø	İ
VolD (LAN/SID)	8		Ø	,	Ø	0	Ø	ŵ
Collaboration Server	9		Ø	,	Ø	0	Ø	ŵ
Audio Interface	10		٦	,	Ø	0	Ø	Û
PRETALK Streaming	11		٦	,	Ø	0	Ø	â
AES67	12		Ø	,	ß	0	Ø	1 1
LAN Interface	13		-	,	 [7]	0	_ //	π .
NTP	14			•		0		- m
VLAN	15			•		0		Ω.
DHD Audio Matrix	16		<u>ت</u>	•		0		1 1 1
Ember+	10		ك		٩	0	ى	
PhonerSet / Remote Light		-				-		
ACconnect Stream Quality Measuremen SNMP								
System Login								



DHD AUDIO MATRIX (2)

- Configure the parameters for connecting the MAGIC THipPro to a DHD core on the DHD AUDIO MATRIX page.
- The MAGIC THipPro supports DHD-ECP (External Control Protocol) to interact with DHD mixing consoles by sending and receiving commands and status information via DHD SetLogic.
- The MAGIC THipPro can connect to up to 16 DHD cores.
- The MAGIC THipPro always tries to connect to the primary IP address of the DHD core. If that is not available, it will try to connect to the redundancy IP address of the DHD core.
- ACTIVATE DHD AUDIO MATRIX CONTROL: Enable the DHD communication protocol.
- LAN INTERFACE: Select the LAN interface of the MAGIC THipPro which connects to the DHD cores.

- REDUNDANCY LAN INTERFACE: Select the LAN interface of the MAGIC THipPro Lite which connects to the Redundancy IP Address of the DHD cores.
- TCP/IP RECONNECT TIME: Specifies the time interval between TCP connection requests to a DHD core in seconds. The range is 1 – 255 seconds. (default: 10 seconds)
- DHD CORE: Enter up to 16 DHD cores in the table.
- IP ADDRESS: Enter the IP address of the DHD core.
- REDUNDANCY IP ADDRESS: Enter the redundancy IP address of the DHD core.
- TCP/IP PORT: Enter the port of the DHD-ECP (External Control Protocol) of the DHD core.
- Find more details about controlling the MAGIC THipPro via DHD SetLogic in the Signalling and Control with DHD SetLogic document available in the download section of our website.

Ember+(1)

Configuration								×
Local MAGIC THipPro	Ember+							
Internal HOLD Signals Studio Audio Assignment Clients Audio Assignment Clients Restrictions Signal Processing	Activate Ember+ Prov Ember+ Connection Para LAN Interface: Port 1 (Consumer 1):	ider meters: LAN 1 : 172.20.225. 9000	25 V Port 5 (Consum	er 5): 9004	Port 9 (0	Consumer 91: 9008	Port 13 (Consumer 13) 9012	
Line Labels Studio Settings Auto Answer Intro / Data Privacy Query Answering Machine DTME	Port 2 (Consumer 2): Port 3 (Consumer 3): Port 4 (Consumer 4):	9001 9002 9003	Port 6 (Consum Port 7 (Consum Port 8 (Consum	er 6): 9005 er 7): 9006 er 8): 9007	Port 10 Port 11 Port 12	(Consumer 10): 9009 (Consumer 11): 9010 (Consumer 12): 9011	Port 14 (Consumer 14): 9013 Port 15 (Consumer 15): 9014 Port 16 (Consumer 16): 9015	
Actions GPIO Ember+ Consumer Extension Ember+ Dial Pad Extension System Settings	Activate Ember+ Cons Connection Parameters: LAN Interface:	LAN 1 : 172.20.225	.25 ~					
	Provider 1: Provider 2: Provider 3: Provider 4: Provider 5: Provider 6: Provider 7: Provider 8:	TCP/IP Address:	Port: 900 0 0 0 0 0 0		Provider 9: Provider 10: Provider 11: Provider 12: Provider 13: Provider 14: Provider 15: Provider 16:	TCP/IP Address:	Port: 0 0 0 0 0 0 0 0 0 0 0 0 0	
Client ID: 1 Studio: 1						ОК	Abbrechen Apply Now	

Ember+ (2)

- Configure the parameters for connecting the MAGIC THipPro to studio equipment supporting Ember+ on the EMBER+ page.
- The MAGIC THipPro supports the Ember+ provider role and the Ember+ consumer role.
- The Ember+ protocol provides ways to send and receive commands and status information.
- ACTIVATE EMBER+ PROVIDER to let up to 16 Ember+ consumers connect to the MAGIC THipPro.
 - LAN INTERFACE: Select the LAN interface of the MAGIC THipPro to which the Ember+ consumers connect.
 - PORT N (CONSUMER N): Enter a port for each consumer. (default: 9000, 9001, 9002, ...)

- ACTIVATE EMBER+ CONSUMER to connect the MAGIC THipPro to up to 16 Ember+ providers.
 - Enabling the Ember+ consumer is also required for the Ember+ Consumer Extension.
 - LAN INTERFACE: Select the LAN interface of the MAGIC THipPro connecting to Ember+ providers.
 - TCP/IP ADDRESS: Enter the IP address of the provider.
 - PORT: Enter the port of the provider the MAGIC THipPro should connect to.
- Find more information in the Signalling and Control with EmBER+ document available in the download section of our website.

PhonerSet / Remote Light (1)

Configuration		×
Local	PhonerSet / Remote Light	
MAGIC THipPro ACip3 1	✓ Activate PhonerSet PhonerSet Connection Parameters: LAN Interface: LAN 1 : 172.20.30.25 ∨ TCP/IP Port: 10300 Audio Port PhonerSet 1: 5400 Audio Port PhonerSet 2: 5402 Audio Port PhonerSet 3: 5404 Audio Port PhonerSet 3: 5404 Audio Port PhonerSet 4: 5406	
GPIO GPIO Ember + Consumer Extension Ember + Dial Pad Extension General General Caller Line Grouping Collaboration Server Audio Interface PRETALK Streaming	Activate Remote Light Protocol Command Light Protocol Connection Parameters: LAN Interface: LAN 1 : 172.20.30.25 Port 1 (Remote Device 1): 10100 Port 4 (Remote Device 4): 0 Port 2 (Remote Device 2): 0 Port 5 (Remote Device 5): 0 Port 3 (Remote Device 3): 0 Port 6 (Remote Device 6): 0	
AES67 LAN Interface NTP VLAN DHD Audio Matrix Ember+ PhonerSet / Remote Light ACconnect Stream Quality Measurement SNMP System Login		
Client ID: 5 Studio: 4	OK Abbrechen Apply	Now

PhonerSet / Remote Light (2)

- Configure the parameters for connecting PhonerSet or Remote Light controllers to the MAGIC THipPro on the PHONERSET / REMOTE LIGHT page.
- ACTIVATE PHONERSET: Enables the PhonerSet module.
 - PhonerSet is an app for the touchscreen equipped Grandstream desk phones GXV3350, GXV3370 and GXV3380. The phones can be used for pretalk and for putting calls in HOLD or ON AIR.
 - The PhonerSet app can control up to 10 MAGIC THipPro telephone lines.
 - Up to 8 PhonerSets may be connected to MAGIC THipPro.
 - LAN INTERFACE: Select the LAN interface of the MAGIC THipPro to which the PhonerSet phones connect.
 - TCP/IP PORT: Enter the local port to which the PhonerSet phones connect. (default: 10300)
 - AUDIO PORT: Each PhonerSet phone establishes an audio data stream to the MAGIC THipPro Lite for pretalk. Enter a unique port for each PhonerSet

phone. (default: 5400, 5402, 5404, 5406, 5408, 5410, 5412, 5414)

- Find more information in the MAGIC PhonerSet document available in the download section of our website.
- ACTIVATE REMOTE LIGHT PROTOCOL: Enables the Remote Light protocol module.
 - Remote Light is a very simple IP based protocol to control the telephone lines of a MAGIC THipPro. Contact us for the Remote Light Protocol specification.
 - LAN INTERFACE: Select the LAN interface of the MAGIC THipPro to which the Remote Light Clients connect.
 - TCP/IP PORT: Enter a local port for each Remote Light Client which should connect to the MAGIC THipPro. (default: 10100, 101001, 10102, ...)

ACconnect (1)





ACconnect (2)

- Configure the parameters for connecting a MAGIC ACip3 Audio Codec to the MAGIC THipPro on the ACCONNECT page.
 - The ACconnect licence upgrade is required.
 - Connected ACip3 units must be configured using the THipPro PC software. The ACip3 configuration is available through a new tab in the upper left corner of the configuration windows or via MENU – MAGIC ACIP3 – CONFIGURATION in the MAGIC THipPro LAN Client software.
 - ACconnect codec channels are embedded in the main panels of MAGIC THipPro Lan Client and MAGIC THipPro Screener.

- AUDIO CODECS: Enter up to four audio codec channels in the upper table.
 - LAN INTERFACE: Select the LAN interface of the MAGIC THipPro to which the ACip3 connects.
 - IP ADDRESS: Enter the IP address of the ACip3 which provides the codec channel.
 - UDP AUDIO PORT: Sets the UDP port for streaming the audio between MAGIC THipPro and MAGIC ACip3 for Pretalk, Hold signal and Conferencing. The UDP audio port defines the source port (at the MAGIC THipPro) and the remote port (at the MAGIC ACip3.)
 - LABEL: Sets the label of codec line's the ON AIR button in the main panel.



ACconnect (3)

- MAGIC ACIP3 AUDIO INTERFACE ASSIGNMENT: Assign an audio interface of each ACip3 codec channel to the studios which should have access to the codec channels. When an ACconnect coded channel is put ON AIR via PC software, the audio signal is routed through one of the ACip3's native audio interfaces to provide the best audio quality. You may either share an audio interface between many studios or assign an individual audio interface to each studio. Up to 5 audio interfaces are available:
 - ANALOGUE (XLR): Analogue stereo interface.
 - AES1 / AES2: Digital AES/EBU stereo interfaces.
 - AES67 1 / AES67 2: Digital Audio over IP stereo interfaces. (Software licence required.)
- ACconnect also supports connecting the ACip3's audio interfaces to an audio router, which is controlled via DHD or Ember+. This feature needs to

be enabled in the ACip3. The native audio interfaces are then also available with one of the following appendices:

- + DHD ID: Activating such an audio interface also sends the specified DHD ID to the DHD core.
- + EMBER+ GPO: Activating such an audio interface also sets an Ember+ GPO in the ACip3 provider's Ember+ tree.
- + AUDIO MATRIX CONTROL: Activating such an audio interface sends the specified DHD ID and sets an Ember+ GPO.
- Contact us for a quick guide on connecting ACconnect to audio routers.

ACconnect (4)

- LINE COLOUR: Define the colour of the ACconnect channels. Click the coloured rectangle to open the colour configurator:
 - BACKGROUND COLOUR: Click the coloured rectangle to select the background colour of the ACconnect channels.
 - LUMINANCE DIFFERENCE: Side by side channels are easier to identify if they have slightly different colors. This setting changes the brightness of the selected background color of every second ACconnect channel.
 - TEXT COLOUR: Set the colour of all text displayed on the selected background colour to BLACK or WHITE.
 - SET DEFAULT: Set all colours to default values.
- TRANSMIT INITIAL CONFIGURATION TO ACIP3: Press this button when connecting an ACip3 for the first time to the MAGIC THipPro. The THipPro PC software will connect to all specified ACip3 units and configure their ACconnect settings

automatically. This can be done manually in the ACip3 configuration as well.



Stream Quality Measurement (1)

Configuration		×
Local	Stream Quality Measurement	
MAGIC THipPro ACin3 1		
Signal Processing	Measurement interval:	3 sec (130)
- Line Labels		
Studio Settings	Quality LED status:	
Auto Answer	😑 Bad:	Packet Loss > 30
Intro / Data Privacy Query	- A - 111	
- Answering Machine	Acceptable:	Packet Loss > 3 or Jitter > 300 msec
Night Service		
DTMF		Default Settings
- Actions		
Telephone Client Application		
Ember + Consumer Extensior		
Ember + Dial Pad Extension		
System Settings		
General		
- Line Interface		
Caller Line Grouping		
Audia Interface		
DETALK Straming		
AES67		
LAN Interface		
NTP		
VIAN		
DHD Audio Matrix		
Ember+		
ACconnect		
Stream Quality Measuremen		
SNMP		
System Login		
×		
Client ID: 5 Studio: 4		OK Abbrechen Apply Now

Stream Quality Measurement (2)

- Configure the parameters for the stream quality indication on the PC software on the STREAM QUALITY MEASUREMENT configuration page.
- The stream quality of a received audio stream during a telephone connection is displayed by a little LED near the level meter on the PC software.
 - •: The stream quality is good
 - •: The stream quality is acceptable
 - •: The stream quality is bad
- MEASUREMENT INTERVAL: The THipPro counts the number of lost packet and stores the maximum jitter that appeared within that time interval. The first indication of stream quality after a call is established can be displayed when the first measurement interval is over. A shorter interval leads to faster results.

- The thresholds for the status LEDs can be configured under QUALITY LED STATUS.
 - PACKET LOSS >: Define the number of packet losses within the measurement interval that will make the LED switch to the respective quality level.
 - JITTER >: Define the maximum jitter within the measurement interval that will make the LED switch to the respective quality level.



SNMP (1)

onfiguration					
Local	SNMP				
MAGIC THipPro ACip3 1					
Mode & Audio Line 🔥 🔺	SNMP				
Internal HOLD Signals	Shimi Version.	vzc v		Alarm I raps	Category
Studio Audio Assignment	Read/Trap Community:	public public		System Alarms	
— Clients Audio Assignment	SNMP Port:	161			Category A
Clients Restrictions	NMS 1 (LAN/IP Adr /Port):	LAN 1 : 172.20.30.25 V 172.20.10.18	162	I Ime Keeper	Category A
Signal Processing		LAN 1 - 172 20 20 25	162		Category A
Line Labels	NMS 2 (LAN7IP Adr./Port):	LAN 1 : 172.20.30.25 V	102		Category A
Studio Settings	NMS 3 (LAN/IP Adr./Port):	LAN 1 : 172.20.30.25 V	162		Category A
Auto Answer	NMS 4 (LAN/IP Adr./Port):	LAN 1 : 172.20.30.25 🛛 🗸	162	Display Contrast DAC	Category A
Intro / Data Privacy Query	System Description:				Category A
- Answering Machine	Contract	Admin		☑ I/O Port	Category A
Night Service	Contact.	Admin		🗹 Ethernet MAC 1	Category A
DIMF	System Location:	Rack 1		Ethernet MAC 2	Category A
Actions	Cond all kappe at system of	at actions		Ethernet MAC 3	Category A
- Telephone Client Application		Send all traps at system startup			Category A
⊕ GPIO	Send traps immediately a	fter enabling		DSP 2 Boot	Category A
Ember + Consumer Extension				USP 2 Access	Lategory A
- System Settings	Category A Alias:	Hardware			Category A
General	Category B Alias:	Audio			Category A
Caller Line Grouming	Category C Alias:	SIP			Category A
VolD (LAN/SID)				DANTE Module Access	Category A
Audio Interface	Lategory D Allas:			Application Alarms	
PRETALK Streaming				AES/EBU Framing Input 1	Category B
AFS67				AES/EBU Framing Input 2	Category B
LAN Interface				AES/EBU Framing Input 3	Category B
VLAN				I I∕I AES/EBU Framino Input 4	Category B 🎽
- DHD Audio Matrix				Set All Cl	ear All
Ember+					
PhonerSet / Remote Light					
ACconnect					
SNMP					
Login 🗸 🗸					
ent ID: 9 Studio: 1				04	Canaal
				UK	Cancel Ap

SNMP (2)

- Configure the parameters for connecting the MAGIC THipPro to a network management system on the SNMP configuration page.
- MAGIC THipPro parameters exposed through SNMP are read-only.
- The MAGIC THipPro responds to Get-requests and sends traps.
- SNMP VERSION: Select the SNMP version. MAGIC THipPro supports SNMPv1 and SNMPv2c.
- READ / TRAP COMMUNITY: Enter a string for the READ community and a string for the TRAP community. Communities are used to authenticate the device with the network management system.
- SNMP PORT: Specify the local UDP port for receiving SNMP requests and sending SNMP responses. The remote port is derived from received SNMP requests. (default: 161)

- NMS 1-4: Specify up to four network management stations to receive traps.
 - LAN:Select the LAN interface of the MAGIC THipPro which is used to send SNMP traps.
 - IP ADDR: Specify the IP address of the network management station.
 - PORT: Specify the UDP port of the Trap receiver of the network management station. (default: 162)
- SYSTEM DESCRIPTION: Enter a string describing this particular MAGIC THipPro. This string is part of the standard MIB.
- CONTACT: Enter a string with information about who is responsible for the MAGIC THipPro. This string is part of the standard MIB.
- SYSTEM LOCATION: Enter a string describing where the MAGIC THipPro is located. This string is part of the standard MIB.

SNMP (3)

- SEND ALL TRAPS AT SYSTEM STARTUP: Enable this option to send all traps when the MAGIC THipPro has finished booting.
- SEND TRAPS IMMEDIATELY AFTER ENABLING: Enable to send a trap immediately after it was enabled in the configuration.
- CATEGORY A-D ALIAS: Each Trap may be assigned to a category. Enter strings to describe the categories. The strings can be read by the network management station.
- ALARM TRAPS: All available traps are listed in this table.
 - Select all traps which should be sent to the network management station.
 - Click into the CATEGORY column to assign a trap to a category.

- There are four categories. To decrease the number of traps to send, assign several alarms to a category and select only the category trap at the end of the list.
- Find more information about the alarms in the SYSTEM MONITOR section of this document.
- Additional Traps:
 - AUTHENTICATION FAILURE: A request used an unknown community string.
 - COLD START: The SNMP agent is reinitialising.
- Note: Find the MIB files in the MIB folder inside the installation directory of the MAGIC THipPro PC software.


System Login

MAGIC THipPro MAGIC THipPro Pure



System Login (1)

Configuration		×
Local MAGIC THipPro	System Login	
Local MAGIC THipPro	System Login USER Password: Confirm Password: Password: Confirm Password: Confirm Password:	
Client ID: 1 Studio: 1		OK Abbrechen Applu Now
		OK Abbrechen Apply Now



Login (2)

- Protect the configuration of the MAGIC THipPro from unauthorized access via passwords. Configure the passwords on the SYSTEM LOGIN configuration page.
- There are two levels of privileges:
 - ADMINISTRATOR: Specify an administrator password to restrict
 - displaying and changing the configuration.
 - importing configurations.
 - managing presets.
 - opening the system panel.
 - accessing the file system.
 - updating the firmware.
 - resetting to factory settings.
 - USER: Specify a user password to restrict loading presets.

- Note: If you forgot your password, you need to reset the MAGIC THipPro to factory settings.
- Note: The local configuration on the PC is protected via operating system privileges. See SETTINGS LOCATION in the Local Configuration.

MAGIC THipPro MAGIC THipPro Pure

Operation Settings

 These settings can be stored in Presets or in Super Presets.



Clients / Security (1)

MAGIC THipPro	Clients / Securit	y			
ion Settings 🔥 🔺	- · ·				
ents / Security	- Lomputer Acc	ess List (access rights)			
dio Definition	LAN Ulient /	Screener PLs News	Desk Client PCs Call PINs for Client	PCs	
abase	Client	Alias	Computer Name / IP Address	Chat Name	Add this PC to list
de & Audio Line	1	S1-Presenter 1	172 20 10 10		
ernal HOLD Signals	2	S1-Presenter 2	172.20.10.11		
dio Audio Assignment	2	S1-Screener	172.20.10.11		
note Light Audio Assignment	4	S2.Presenter 1	172 20 10 13		
onerSet Audio Assignmen	5	S2.Presenter 2	172 20 10 14		
nts Restrictions	6	S2-1 reserver 2	172.20.10.14		
nal Processing	7	Prod 1	172.20.10.10		
e Labels	· · ·	Prod 2	172.20.10.10		
dio Settings	8		172.20.10.17		
to Answer	9	l echnician	172.20.10.18		
o / Data Privacy Query	10				
wering Machine	11				
ht Service	12				
AF	13				
ons	14				
) Jar I. Consumar Extension	15				
Settings	16				
eral	17				
Interface	18				
ler Line Grouping	19				
P (LAN/SIP)	20				
o Interface					
ALK Streaming	An empty	list means no access p	rotection is active!		
7					
Interface					
N					
) Audio Matrix					

Clients / Security (2)

- Manage connected PC clients on the CLIENTS / SECURITY page.
- Only Clients specified in one of the lists are permitted to connect to the unit. Other clients are required to enter the administrator login password. If no password is configured on the LOGIN configuration page, access is granted to any PC.
- It is necessary to add the PC clients to one of the lists to be able to assign PRETALK, HOLD and ON AIR audio lines to them.
- Enter all PCs running the MAGIC THipPro LAN Client software or the MAGIC THipPro Screener software on the LAN CLIENT / SCREENER PCS list.
 - CLIENT: The internal ID of a client.
 - ALIAS: A label for the client to easily identify the client on other configuration pages with client specific settings or in the system monitor.
 - COMPUTER NAME / IP ADDRESS: A client is identified by the system by its Windows computer

name or by its IP address used to access the system. If several PCs are to be identified as the same client, you may enter an alias here. Enter the same alias in the local settings of the PC software on the respective client PCs:

- LAN Client / News Desk Client: Go to MENU CONFIGURATION – SYSTEM – LOCAL – CLIENT SETTINGS – LOCATION. Set CLIENT to TAKE IF FROM LOCAL SETTINGS and enter the alias in COMPUTER NAME ALIAS.
- Screener Client: Enter the alias under MENU LOCAL SETTINGS – GENERAL – COMPUTER NAME ALIAS.
- CHAT NAME: Enter a name which is used in the built-in chat window. If the chat name is empty, the ALIAS is used.
- ADD THIS PC TO LIST: Adds the Windows computer name of the PC currently used for configuration to the list. Only applicable if the PC is not yet in the list.

Clients / Security (3)

onfiguration						
Local MAGIC THipPro	Clients / Securit	ty				
• Operation Settings	- Computer Acc	ess List (access righ	ntel			
Clients / Security	LAN Client	/ Soreener PCo Ne	ws Desk Client PCs Call PINe for Client			
	DAIN Client	Scieener Cs ind	Call I INS for Clience		·	
Mode & Audio Line	Client	Alias	Computer Name / IP Address	Application	^	
Internal HOLD Signals	1	News 1	172.20.10.1	News Desk Client		
	2	News 2	172.20.10.2	News Desk Client		
- Clients Audio Assignment	3	News 3	172.20.10.3	News Desk Client		
Remote Light Audio Assignn	4	News 4	172.20.10.4	News Desk Client		
PhonerSet Audio Assignmen	5	News 5	172.20.10.5	News Desk Client		
Clients Restrictions	6					
Signal Processing	7					
Line Labels	8					
Studio Settings	9					
Auto Answer	10					
Annual Mashing	11					
Night Service	12					
	12					
Actions	14					
	14					
Ember + Consumer Extensior	15					
System Settings	16					
General	17					
- Line Interface	18					
Caller Line Grouping	19					
VoIP (LAN/SIP)	20				¥	
- Audio Interface	án smelu	E.t				
PRETALK Streaming	An empty	list means no acces	s protection is active!			
AE 50/						
VI AN						
End and Madra						

Clients / Security (4)

- News Desk Clients (NDC) are basically LAN Clients with a limited feature set. NDCs can not configure the system and provide no ON AIR buttons. Install the LAN Client software on NDC PCs. The LAN Client switches to NDC view when connecting to the system.
- Enter all PCs which should act as News Desk Clients in the NEWS DESK CLIENT PCS list.
 - CLIENT: The internal ID of a client. It identifies the client on configuration pages where client specific settings are configured.
 - ALIAS: A label for the client to easily identify the client in the system monitor. Also used as chat name in the built-in chat window.
 - COMPUTER NAME / IP ADDRESS: A client is identified by the system by its Windows computer name or by its IP address used to access the system. If several PCs are to be identified as the same client, you may enter an alias. Enter the alias in the LOCAL

SETTINGS of the PC software under CLIENT SETTINGS – LOCATION.

- APPLICATION: Just informative.
- Note: Clients on the NEWS DESK CLIENT PCS list are not permitted to configure the system. If you add the PC currently used for the configuration, you will be locked out of the configuration after pressing OK.



Clients / Security (5)

Configuration					
Local MAGIC THipPro	Clients / Security				
Operation Settings	Computer Access Lis	t (access rights)			
Studio Definition	LAN Client / Scree	ener PCs News Desk Clier	nt PCs Call PINs for Client PCs		
Database	Client	Aliza	Call Pin	A	
Mode & Audio Line		Allas			
Internal HOLD Signals	1	SI-Presenter I	***		
Studio Audio Assignment	2	ST-Presenter 2			
Clients Audio Assignment	3	S1-Screener	*** 		
Remote Light Audio Assignn	4	S2-Presenter 1	***		
Cliente Restrictions	5	S2-Presenter 2	***		
Signal Drogossing	6	S2-Screener	***		
Line Labels	7	Prod 1			
Studio Settings	8	Prod 2			
Auto Apswer	9	Technician			
Intro / Data Privacy Query	10				
- Answering Machine	11				
Night Service	12				
DTMF	13				
Actions	14				
🖶 GPIO	15				
Ember+ Consumer Extensior	16				
System Settings	17				
General	17				
Line Interface	18				
Caller Line Grouping	19				
VoIP (LAN/SIP)	20			~	
Audio Interface					
PRETALK Streaming	An empty list me	ans no access protection is	active!		
AES67					
VI AN					
DUD Audio Matrix					
Embert					

Clients / Security (6)

- By default, each client is permitted to make longdistance or international calls or calls to cell phone networks.
- Enter a CALL PIN for clients which should be restricted to local calls only.
- On these clients, the users must enter the CALL PIN each time they want to make long distance or international calls or calls to cell phone networks.



Studio Definition (1)

Local MAGIC THipPro	Studio Definition			
Operation Settings	Caller Lines 🥥	1: 172.20.10).17\SQLEXPF	RESS.PhoneBook 🥥 Database 2 🥥 Database 3 🔍 Database 4 🔍 Database 5 🔍 Database 6
Database Mode & Audio Line Internal HOLD Signals Studio Audio Assianment	Name	Database	e Colour	Channels
	Line Groups			CALL IN VIP CALL IN VIP PR PR NEWSDESKS
Clients Restrictions Signal Processing	Studio 1	1 [▼ Text	
Line Labels Studio Settings	Studio 2	1 [▼ Text	
Auto Answer Intro / Data Privacy Query	Prod 1	1 [▼ Text	
Answering Machine Night Service	Prod 2	1 [▼ Text	
Actions	Studio 5	1 [▼ Text	
Ember+ Consumer Extension	Newsdesks	1 [▼ Text	
- General				Text
Caller Line Grouping VoIP (LAN/SIP) Audio Interface PRETALK Streaming	CF: Call Forwardin	ng Line		Luminance difference: 13
AES67 LAN Interface VLAN DHD Audio Matrix				SET DEFAULT OK Cance
Ember+ PhonerSet / Remote Light				



Studio Definition (2)

- Assign the telephone lines to studios on the CALLER LINES tab of the STUDIO DEFINITION configuration page. Up to six studios for LAN clients and Screener clients can be enabled via the ADMIN STUDIO licences. The News Desk Client licence includes a separate studio for the News Desk Clients. It is always displayed as the last studio in the list. If 6 Admin Studio licences are enabled, LAN Clients and Screener clients can access the News Desk Client studio as well. The number of studios is always limited to 6.
 - NAME: Enter a name for each studio.
 - DATABASE: Select a telephone book database for each studio. Studios which share at least one telephone line must use the same database.
 - COLOUR: Define the colour scheme of the studio. It applies to:
 - the menu bar at the top,
 - the menu side bar and

- telephones lines which are not assigned to a LINE GROUP.
- Press the coloured rectangle to open the colour configurator:
 - BACKGROUND COLOUR: Click the coloured rectangle to select a background colour.
 - LUMINANCE DIFFERENCE: Side by side channels are easier to identify if they have slightly different colors. This setting changes the brightness of the selected background color for every second channel.
 - TEXT COLOUR: Set the colour of all text displayed on the selected background colour to BLACK or WHITE.
 - SET DEFAULT: Set all colours to default values.
- CHANNELS: Assign each telephone line to as many studios as desired. The configured line groups are displayed at the top for better orientation.
 Call Forwarding lines are marked with "CF". They cannot be assigned to a studio.

Database (1)

Configuration													
Local	Database												
MAGIC THipPro ACip3 1													
Operation Settings	Caller Lines 🧕 1: 172.20.1.	2\SQLEXPRESS.CallerTH	HipPro	o_TF_minimal 🗌) Database 2	🔍 Databas	se 3	🔍 Databa:	se 4	🔍 Databa	ase 5	🔍 Databa	ise 6
- Clients / Security													
Studio Definition	🗹 Database												
Database	SQL Server:	172.20.1.2\SQLEXPRE	ESS								Test/0	pen Conne	ction
News Desk Pool										_			
Mode & Audio Line	Database:	PhoneBook											
- Internal HOLD Signals	User:	ScreenerUser											
Studio Audio Assignment													
Clients Audio Assignment	Password:	•••••											
PhonerSet Audio Assignmen	Network Library:	Default								\sim			
Clients Restrictions													
Signal Processing	Telephone Book												
- Line Labels	Phone Number Types	Connection Types		Mode	Besolution	Sampling Ba	ate	Data Bate		Secure S	itream	Bernot	~
Studio Settings		Teleshave		modo	110001041011	oumpingrid		Datamato		0000000	, croam	1101100	
Auto Answer	unkown	Telephone	•										_
Intro / Data Privacy Query	mobile	Telephone	•										_
Minkt Canica	office	l elephone	•										_
DTME	private	Telephone	-										_
Actions	TEAMS	Collaboration Service	es										
Telephone Client Application	MP2	MPEG Layer 2	-	Stereo 🔻		48 kHz	-	192 kBit/s	-	OFF	-	OFF 🔻	Υ.
	Add Phone Nur	aber Tuna	-										
Ember+ Consumer Extension	Add Fhone Nul	рентуре с	oave										
- Ember + Dial Pad Extension	Location Details							Op	eration	Parameter	s		
System Settings	Country:	Deutschland (+49)		~	Country C	Code: +49		A	uto-loci	k info:	4 Hou	urs (Default)	\sim
General		da a sh				011			T.c.		(()	I	
Line Interface	Lity:	< local>		~	Area Lod	le: 911			_ snow	v cleared in	iro arter	IOCK (IME	
- Caller Line Grouping	Label for in-house calls:	<in-house></in-house>			🗌 Disab	le Number Form	nattir	ng D	elete P	rotection:	No		\sim
VoIP (LAN/SIP)	Always dial Country (`ode								ata Hoor C	ontent E	ilter	
Collaboration Services		5008] ACUV		oriterit F	inter democratical	
Audio Interface									_onan ⊒⊳	e screening Di	y inito De	ween siud	108
PRETALK Streaming									'] Data	Privacy dis	sagreem	ent as defa	uit
AES67 🗸 🗸													
nt ID: 3 Studio: 1								OK		Abbreche	n /	Apply Now	



Database (2)

- Configure to up to six databases on the DATABASE page.
- THipPro uses Microsoft SQL or Microsoft SQL Express databases to store caller information (phone book) as well as additional information like layouts for MAGIC THipPro Screener, Social Media content (X (Twitter)) and Show Profiles.
- Assign a database to a studio on the STUDIO DEFINITION configuration page.
- Find the SQL SERVER 2012 INSTALLATION document in the download section of our website. It describes:
 - How to install the Microsoft SQL Express server.
 - How to configure the Microsoft SQL server.
 - How to install the MAGIC THipPro phone book database on a Microsoft SQL server.
 - The manual also applies to newer versions of the Microsoft SQL server.

- DATABASE: Enable the database and specify the parameters to access the database.
 - SQL SERVER: Network address of the Microsoft SQL server followed by the database instance separated by a backslash '\'). Depending on the SQL server configuration the database instance might be omitted.
 - DATABASE: The SQL database name.
 - USER: The SQL database user name.
 - PASSWORD: The users SQL database password.
 - NETWORK LIBRARY: Chose a network library which uses a protocol which is supported by the specified SQL server:
 - DEFAULT: The driver on the Client PC choses the network library automatically.
 - NAMED PIPES
 - TCP/IP
 - TEST/OPEN CONNECTION: Establish a connection to the SQL server. If the connection fails, additional information about the error is displayed.

Database (3)

TELEPHONE BOOK

- The MAGIC THipPro phone book stores up to three phone numbers per contact. Phone number types help to classify the phone numbers.
- All Algorithms which are to be used with ACconnect codec channels must be specified as phone number types.
- Four phone number types are available by default:
 - Unknown
 - Mobile
 - Office
 - Home
- PHONE NUMBER TYPES:

Click on a phone number type to edit the name. Erase the name to delete the phone number type. Default phone number types cannot be deleted.

 ADD PHONE NUMBER TYPE: Click to add a phone number type to the list. Edit the parameters directly in the list.

- SAVE: Press to save the changes in the database.
- CONNECTION TYPES: Chose a connection type:
 - TELEPHONE: For telephone numbers used on THipPro channels.
 - COLLABORATION SERVER: For Microsoft Teams contacts.
 - ALL OTHERS: ACconnect algorithms depending on the licenced algorithms of the connected ACip3 including G.711, G.722, MP2, MP3, aptX, AAC, Opus, PCM.
- MODE: Mono or stereo mode for certain algorithms.
- RESOLUTION: 16/20/24 bits/sample for certain algorithms.
- SAMPLING RATE: 32/48 kHz for certain algorithms.
- DATA RATE: 16...384 kBit/s for certain algorithms.

Database (4)

- SECURE STREAM: Secure streaming is only possible between AVT codecs. The audio streams is sent twice with an optional delay between the streams to improve error tolerance. The second stream uses the audio port of the first stream increased by one.
 - ON: The ACip3 sends a duplicate of the stream additionally. The ACip3 also expects to receive two streams.
 - OFF: Compatible with any AoIP codec.
 - AUTO: The ACip3 sends the Stream twice. If no second stream is received within 10 seconds, sending the second stream is stopped.
 - DELAY: Specify the delay between the two streams (0 500 ms). This also increases the overall audio delay.
- REMOTE GPIO: Only possible between AVT codecs. Transmits GPIO input states of TTL, DHD Set Logic, Ember+ to the other end. There, these input states may be assigned to any TTL, DHD Set Logic or Ember+ GPIO output.
 - OFF: Compatible with any AOIP codec.
 - RTP: Send the GPIO input states along with the audio stream.
- LOCATION DETAILS: With these parameters the MAGIC THipPro can distinguish between local, long-

distance and international calls. They are also necessary to store the telephone numbers in a standardized format.

- COUNTRY: Select the country in which the MAGIC THipPro is located, from the list. This automatically sets the COUNTRY CODE. If the desired country cannot be found, set the country code manually.
- COUNTRY CODE: The international dialling code of the country in which the MAGIC THipPro is located.
- CITY: Select the city in which the MAGIC THipPro is located from the list. This automatically sets the AREA CODE. If the desired city cannot be found, set the area code manually. Using the MAGIC THipPro Screener, it is possible to import area codes into the database. Find the area codes of some countries in the installation directory of MAGIC THipPro Screener.
- AREA CODE: National telephone number prefix for the city in which the MAGIC THipPro is located.



Database (5)

- LABEL FOR INHOUSE CALLS: This label is displayed instead of the caller's city when a call is identified as coming from an internal extension.
- DISABLE NUMBER FORMATTING: Enable to store and display telephone numbers of incoming calls as they are signaled by the telephone network.
- ALWAYS DIAL COUNTRY CODE: Enable to prefix the country code also for national calls.
- OPERATION PARAMETERS: Manage access to database content.
 - AUTO-LOCK INFO: Information about each call may be stored by the user in the info record. Set the timeout when the system locks the info record after the last editing. If an info record is locked, the screener must use a new info record for entering call information. The locked dataset remains in the database to display the history of the caller. As long a caller is on the noted callers list, the info record is not locked.
 - SHOW CLEARED INFO AFTER LOCK TIME: Enable to automatically create a new record when the current info record was locked by the AUTO-LOCK.

- DELETE PROTECTION: Set the time period during which a contact cannot be deleted from the database after it has been last edited.
- ACTIVATE USER CONTENT FILTER: By default, each client PC is permitted to access the phone book. If the user content filter is active, each user must log in with username and password to access the phone book. Each user only has access to the phone book entries he or she has created. The entries created by other users cannot be accessed. Specify usernames and passwords on the USER CONTENT FILTER configuration page.
- SHARE SCREENING INFO BETWEEN STUDIOS: When someone calls, the software displays the information that was collected during the last call. By default, it the software only displays this information if the last calls was in the same studio. Enable this option to also display information that was collected in a different studio of the THipPro.
- DATA PRIVACY DISAGREEMENT AS DEFAULT: New contacts are entered as not having agreed to data privacy by default.

User Content Filter (1)

Local	User Conter	nt Filter			
MAGIC THipPro ACip3 1					
Operation Settings	• 1:17	2.20.10.1 ASQLEXPRESS	j.PhoneBook		
- Studio Definition	#	Title	Login Name	Password	
Database User Content Filter	1	Show A	UserA	***	
News Desk Pool	2	Show B	UserB	***	Delete All Caller for Filter
Mode & Audio Line	3	Filter 3			
Studio Audio Assignment	4	Filter 4			Reset Filter Data
Clients Audio Assignment	5	Filter 5			
PhonerSet Audio Assignmen Clients Restrictions	6	Filter 6			
- Signal Processing	7	Filter 7			
Line Labels Studio Settings	8	Filter 8			
Auto Answer	9	Filter 9			
Intro / Data Privacy Query Answering Machine	10	Filter 10			
- Night Service	11	Filter 11			
DTMF	12	Filter 12			
	13	Filter 13			
Ember + Consumer Extension	14	Filter 14			
System Settings General	15	Filter 15			
Line Interface	16	Filter 16			
Caller Line Grouping					
- Audio Interface					
PRETALK Streaming					Show Passwords
LAN Interface					

User Content Filter (2)

- Specify usernames and passwords for the User Content Filter of each database on the USER CONTENT FILTER page.
- Activate the User Content Filter in the OPERATION PARAMETERS section off the DATABASE configuration page.
- By default, each client PC is permitted to access the phone book. If the user content filter is active, each user must log in with username and password to access the phone book.
- Each user only has access to the phone book entries he or she has created. The entries created by other users cannot be accessed.
- The User Content Filter credentials cannot be stored in a Preset.
- You may specify a custom image for each user on the STUDIO SETTINGS configuration page which is displayed on the upper right corner of the PC software if a user is logged in.

- When recording PRETALK streams, the software stores the files in a separate subfolder for each content filter (1-16).
- TITLE: Specify the label of the Login. It is used:
 - when notifying the user that he or she has successfully logged in.
 - when specifying the custom image file path in the STUDIO SETTINGS configuration page.
- LOGIN NAME: Specify the username.
- PASSWORD: Specify the password.
- DELETE ALL CALLER FOR FILTER: Delete all phone book entries of the currently selected user.
- RESET FILTER DATA: Resets the whole list to its default values. (Software must be run as administrator).
- SHOW PASSWORDS: Display the configured passwords as plain text. (Software must be run as administrator)



News Desk Pool (1)

Local	ews Desk Pool	
MAGIC THipPro ACip3 1 Operation Settings	News Desk Client Studio	
	News Desk Cli Channels	
Mode & Audio Line Internal HOLD Signals Studio Audio Assignment	Line Groups CALL IN VIP CALL IN VIP PROD PROD NEWS	
Clients Audio Assignment Clients Restrictions	News 1	
Signal Processing Line Labels Studio Settings	News 2	
Auto Answer Intro / Data Privacy Query	News 3	
Answering Machine Night Service DTMF	News 5	
Actions ⊕ GPIO Embary Consumer Extension		
Ember + Dial Pad Extension system Settings		
General Line Interface		
Audio Interface PRETALK Streaming 		
LAN Interface		



News Desk Pool (2)

- Assign individual telephone lines to News Desk Clients on the NEWS DESK POOL page.
- By default, each News Desk Client displays all telephone lines assigned to the News Desk Studio.
- Select the checkboxes to display only distinct channels on the respective news desk client.



Mode & Audio Line (1)

Configuration						
Local	Mode & Audio Line					
MAGIC THipPro ACip3 1	Audio Interfaces Audio Stre	ame AFS67				
	Audio Stick					
News Desk Pool	Audio Interface	Function		No Input Alarm	Ringing Tone	Label
Mode & Audio Line	Handset 1	Pretalk 10	-			PRE TALK
- Internal HOLD Signals Studio Audio Assignment	Handset 2	Pretalk 11	-			PRE TALK
Clients Audio Assignment	XLR Analogue 1	External HOLD 1	•			
PhonerSet Audio Assignmen	XLR Analogue 2	External HOLD 2	•			
Clients Restrictions Signal Processing	AES/EBU 1 Left	On Air 1	•			
- Line Labels	AES/EBU 1 Right	On Air 2	•			
Studio Settings	AES/EBU 2 Left	On Air 3	•			
- Auto Answer	AES/EBU 2 Right	On Air 4	•			
Answering Machine	AFS/FBU3Left	On Air 5	•			
Night Service	AFS/EBU 3 Bight	On Air 6				
- DTMF	AEC/EDU 41 -9	Eutomal HOLD 2				
			•	▼		
Ember + Consumer Extension	AES/EBU 4 Right	External HULD 4	•	v		
- System Settings						
General						
Line Interface						
Caller Line Grouping						
VoIP (LAN/SIP)						
DETALK Streeming						
AES67	Caution: Invalid settings are r	ed!				Default Settings
LAN Interface						
VIAN						
DHD Audio Matrix						
Ember						
DhonerSet / Remote Light						
Filoherset/ Keniote Light						
D: 9 Studio: 2						OK Cancel



Mode & Audio Line (2)

- Assign logic audio lines to physical and AoIP audio interfaces on the MODE & AUDIO LINE page.
- With MAGIC THipPro, the audio interfaces are not directly assigned to certain functions. Instead, they are assigned to so called audio lines. These audio lines are then assigned to studios or clients.
- This allows for shifting a function to a different audio interface more easily.
- It is also possible to assign multiple audio interfaces to an audio line.
 - The input signals of these audio interfaces are then mixed.
 - The output signal is sent to each audio interface.
- All audio interfaces are mono.
- Input and output of an audio interface cannot be separated.

- There are 5 columns:
 - AUDIO INTERFACE: Identifies the audio interface.
 - FUNCTION: Click to select an audio line.
 - NO INPUT ALARM: Select this option to disable the input alarm of an AES/EBU digital audio interface when it is used as an output only.
 - RINGING TONE: An audio interface assigned to a Pretalk audio line will output a ringing tone if this option is enabled.
 - LABEL: Click to change the label of the respective button in the MAGIC THipPro LAN Client PC software. Font and font size can also be configured.



Mode & Audio Line (3)

- The available audio interfaces are grouped into up to four categories:
 - AUDIO INTERFACES: Contains the physical audio interfaces (handsets, analogue interfaces, digital AES/EBU interfaces). If there less than five Pretalk Streaming licences installed the respective streams are also displayed here.
 - AUDIO STREAMS: Contains the pretalk streams if there are five or more Pretalk Streaming licences installed on the MAGIC THipPro.
 - AES67: Contains AES67 channels if the AES67 licence is installed and AES67 is activated under SYSTEM SETTINGS – AES67.
 - Note: This is a software implementation of AES67 running on the main DSP.
 - DANTE: Contains the Dante channels if the Dante hardware module is installed on the MAGIC THipPro.
 - Note: Dante is not available when AES67 is activated under SYSTEM SETTINGS – AES67.
 - The Dante module is compatible to AES67.

- RAVENNA: Contains the RAVENNA channels if the Ravenna hardware module is installed on the MAGIC THipPro.
 - Note: Ravenna is not available when AES67 is activated under SYSTEM SETTINGS – AES67.
 - The Ravenna module is compatible to AES67.

Mode & Audio Line (4)

- Physical audio interfaces as well as AES67 and Dante and Ravenna audio channels can be assigned to the following audio lines:
 - PRETALK 1-20: Assign one of 20 pretalk audio lines. (The full capacity is only available with a DANTE or a Ravenna module). Pretalk audio lines can only be assigned to individual clients. They are used to talk to callers off air.
 - External HOLD 1-6: Assign one of 6 HOLD audio lines. Hold audio lines can be assigned to studios or clients. They provide the audio signal fed to the caller when the call is put in hold.
 - ON AIR 1-28: Assign one of 28 on air audio lines. (The full capacity is only available with a DANTE or a Ravenna module). On air audio lines can be assigned to studios or clients. They are used to connect the unit to the faders of the mixing console.
 - OFF CONFERENCE 1-6: Assign one of 6 off conference audio lines. They can be assigned to studio faders. Use off conference audio lines to

provide an off-air audio conference between callers.

- PHONERSET MONITOR 1-8: Assign one of 8
 PhonerSet monitor audio lines. They output the
 audio signal of the caller of the respective

 PhonerSet. This can be used to record the caller
 externally.
- NOT USED: The audio interface will not be available in the further configuration.



Mode & Audio Line (5)

- Audio streams can only be used to transfer audio between the MAGIC THipPro and the LAN Client or Screener Client PC software. They can be assigned to the following audio lines:
 - PRETALK 1-20: Assign one of 20 pretalk audio lines. (The full capacity is only available with a DANTE or a Ravenna module). Pretalk audio lines can only be assigned to individual clients. They are used to talk to callers off air.
 - DYNAMIC PRETALK: Assign any number of audio streams to the pool of dynamic pretalk audio lines. These audio lines can be assigned to PC clients only. Whenever a client puts a call in Pretalk it requests a stream from the pool. If all audio lines of the pool are in use, the Pretalk button in the PC software is deactivated.
 - NOT USED: The audio interface will not be available in the further configuration.

Mode & Audio Line (5)

Local	Mode & Audio Lin	e							
MAGIC THipPro ACip3 1									
Operation Settings	Audio Interfaces	Audio Streams AES6	57						_
- Clients / Security	Tx Channel	Function		Rx Assignment		No Input Alarm	Ringing Tone	Label	1
	1	On Air 9	-	ΔΕS67 01 8cb/Cb 1			5.5		
- User Content Filter	,	0. 4: 10							-
News Desk Pool	2	Un Air 10	•	AES67_01_8ch; Ch. 2	-				_
Mode & Audio Line	3	On Air 11	•	AES67_01_8ch; Ch. 7	•				_
Internal HOLD Signals	4	On Air 12	•	AES67_01_8ch; Ch. 8	•				
	5	External HOLD 5	•	AES67_02_8ch; Ch. 1	•				
PhonerSet Audio Assignmen	6	External HOLD 6	•	AES67_02_8ch; Ch. 2	•				-
Clients Restrictions	7	Off Conference 1	-	AES67 02 8cb: Cb 5	•				-
Signal Processing		Off Conference 2							-
Line Labels	0	Urr Conference 2	•	AES67_02_8ch; Uh. 6	•				-
Auto Answer									_
Intro / Data Privacy Query									
Answering Machine									
Night Service									-
DTMF									-
- Actions									
Ember + Consumer Extension									_
System Settings									_
General									
- Line Interface									
Caller Line Grouping	Caution: Invalid s	ettings are red!						Default Settings	
Audio Interface									
- PRETALK Streaming									
AES67									
- LAN Interface									



Mode & Audio Line (6)

- The AES67 tab is only displayed when the built-in AES67 feature of the THipPro is licenced and activated on the AES67 configuration page.
- With the built-in AES67, it is also necessary to assign the audio channels of the received AES67 streams to the Functions (= audio lines).
- This is because the RX and TX channels are not automatically linked, as is the case with physical audio interfaces.



Mode & Audio Line (7)

Configuration

Local	Mode & Audio Line					
MAGIC THipPro ACip3 1						
Operation Settings	Audio Interfaces Audio Streams BAVEN	NA Channels				_
Clients / Security Studio Definition	Tx Channel	Function	Rx Assignment	Ringing Tone	Label	
Database	TF-THipPro-Studio-A; Ch. 1	On Air 1 🔹	Mixer-Studio-A; Ch. 1	-		
News Desk Pool	TF-THipPro-Studio-A; Ch. 2	On Air 2 🔹	Mixer-Studio-A; Ch. 2	-		
- Internal HOLD Signals	TF-THipPro-Studio-B; Ch. 1	On Air 3 🔹	Mixer-Studio-B; Ch. 1	•		
- Studio Audio Assignment	TF-THipPro-Studio-B; Ch. 2	On Air 4 🗸	Mixer-Studio-B; Ch. 2	•		
Clients Audio Assignment PhonerSet Audio Assignmen	TF-THipPro-Studio-B; Ch. 3	On Air 5 🔹	Mixer-Studio-B; Ch. 3	•		
Clients Restrictions	TF-THipPro-Studio-B; Ch. 4	On Air 6 🗸	Mixer-Studio-B; Ch. 4	•		
Signal Processing	7	•].	•		
	8	•] -	•		
- Auto Answer	9	•].	•		
Intro / Data Privacy Query Answering Machine	10	•].	•		
Night Service	11	•] .	•		
DTMF	12	•] .	•		
Actions 	13	•].	•		
Ember + Consumer Extensior	14	-] .	•		
Ember + Dial Pad Extension	15	•] .	•		
- General	16	-].	•		
Line Interface						
VoIP (LAN/SIP)	Caution: Invalid settings are red!				Default Settings	
Collaboration Server						_
Audio Interface						
PRETALK Streaming						
AES67						
I I I I I I I I I I I I I I I I I I I						
Client ID: 5 Studio: 2				OK Abbrechen	Apply Now	



Mode & Audio Line (8)

- The RAVENNA tab is only displayed if the THipPro is equipped with a Ravenna module and the built-in AES67 feature is disabled.
- The THipPro can utilize 32 channels of the Ravenna module for both directions (input and output).
- It is recommended to configure the input and output streams in the Ravenna web interface first. The channels and stream names are then available in the THipPro configuration.
 - Note: It could take up to a minute until the streams are available to the configuration dialog. Try to switch to any other configuration page and back to Mode & Audio Line to update the table.
 - Find the manual of the Ravenna web interface on our website avt-nbg.de under Downloads > Documentations > RAVENNA RAV2 Module.
- TX CHANNEL: Displays the Ravenna stream names and channel numbers if the output streams are already configured in the Ravenna web interface.

- FUNCTION: Assign an audio line of the THipPro to a Ravenna channel.
- RX ASSIGNMENT: Select a channel from a stream which is currently received by the Ravenna module to assign it to the audio line.
 - Note: Configure the Input streams in the Ravenna web interface first. Only then are they available in the configuration.
- Tipps:
 - The IP address of the Ravenna module can be found under Menu > Administration > Registration. Then, select RAVENNA at the top.
 - An overview of Ravenna streams and channels used by the THipPro can be found in the System Monitor under Menu > System Monitor > Ravenna State > Show Streams.
 - Find the Ravenna stream status in the web interface of the Ravenna module.

Mode & Audio Line (9)

- Ravenna Input Streams
 - In the Ravenna web interface, up to 32 input streams can be configured.
 - The Ravenna module can send up to 32 mono audio channels to the THipPro base board.
 - For each stream a START CHANNEL needs to be set in the Ravenna web interface. This channel number refers to the internal channel number of the THipPro.
 - The Ravenna module can only receive a whole stream. There is no way of selecting a single channel or a part of a stream.

This means if a stream with 8 channels is received and START CHANNEL is set to 1, Ravenna audio channels 1-8 of the THipPro are occupied. For the next stream the START CHANNEL must be set to 9 or higher to avoid overlapping audio signals.

- Ravenna Output Streams
 - In the Ravenna web interface, up to 32 output streams can be configured.
 - For each stream a START CHANNEL and NUMBER OF CHANNELS must be set in the Ravenna web interface.

These channel numbers refer to the Ravenna Tx channels of the THipPro. Example: THipPro Ravenna Tx channels 1-6 should be transmitted via one Ravenna stream, the START CHANNEL should be set to 1 and NUMBER OF

CHANNEL should be set to 1 and NUMB CHANNELS should be set to 6.



Internal HOLD Signals (1)

Local	Internal	HOLD Signals					
MAGIC THipPro ACip3 1	Intern	al HOLD Signale					
Operation Settings	Intern	ai HULD Signais					
Clients / Security	#	Name	Length			PC Path of Dynamic HOLD Signal	
Studio Definition Database	1	Music on hold	32.76 sec	Import	Record/Play		
User Content Filter							
News Desk Pool	2	Announcement	19.11 sec	Import	Record/Play		
Mode & Audio Line	3	Weather		Import	Record/Play	C:\AVT\Weather\Daily Weather.wav	
Internal HOLD Signals Studio Audio Assignment							
	4			Import	Record/Play		
PhonerSet Audio Assignmen	5			Import	Record/Play		
Clients Restrictions							
- Signal Processing	6			Import	Record/Play		
- Line Labels							
Auto Answer							
Intro / Data Privacy Query							
- Answering Machine							
Night Service							
DTMF							
Actions							
• GPIO							
Ember + Consumer Extension							
System Settings							
General							
in line intertace							
Caller Line Grouping							
Caller Line Grouping VoIP (LAN/SIP)							



Internal HOLD Signals (2)

- Manage HOLD signal audio files on the INTERNAL HOLD SIGNALS page.
- The MAGIC THipPro provides six slots for audio files being up to 32 seconds long.
- These file can be played repeatedly as HOLD signal or as an intro when a caller is put on hold.
- The six slots are presented in a table:
 - NAME: Enter a label for the audio file to reference it in other configurations.
 - LENGTH: Length of the stored audio file in seconds.
 - IMPORT: You can import an audio file. Only the first 32 seconds of the audio file are imported. The import module supports WAVE and MP3 audio files. They are automatically converted to a mono file with 16 kHz sampling frequency.
 - RECORD/PLAY: Opens a window to record, play and delete internal Hold signal files. (See next page for details.)

- PC PATH OF DYNAMIC HOLD SIGNAL: Enter the path of a Hold signal file stored on the PC or a network drive. The PC software then imports the file. The PC software on the PC which serves as master checks if the file has changed and automatically updates the Hold signal if necessary.
 - Note: A path can only be entered if a static Hold Signal is already recorded or imported. This file serves as a fallback if there is a problem with importing the file from the specified path.
 - An updated file is detected and imported within 2 minutes.



Internal HOLD Signal Recording (1)

HOLD Signal Recording			×							
HOLD signal	Music on hold									
Signal duration:	32.76 sec	32.76 sec								
Record source: AES/EBU 1 Left ~										
	max.	32 sec								
HOLD signal recording		Test recorded HOLD signal								
	Save									
	Delete File	Close								



Internal HOLD Signal Recording (2)

- Use the RECORD/PLAY button on the INTERNAL HOLD SIGNALS page to open the HOLD SIGNAL RECORDING window.
- NAME: Enter a label for the audio file to reference it in other configurations.
- SIGNAL DURATION: Length of the currently stored Hold signal file.
- RECORD SOURCE: Select an audio interface of the MAGIC THipPro. You can choose from:
 - All Handset interfaces
 - All Analogue Audio interfaces
 - All AES/EBU channels
 - All AES67 channels
 - All DANTE channels
 - The Pretalk Audio Stream assigned to the PC which is recording the Hold signal.

- PROGRESS BAR: Shows the length of the Hold signal being recorded.
- HOLD SIGNAL RECORDING: Control the recording of a Hold signal:
 - LEVEL METER: Shows the level of the audio signal on the selected Record Source.
 - RECORD BUTTON: Starts recording.
 - STOP BUTTON: Stops recording
 - SAVE: Stores the file on the MAGIC THipPro.
- TEST RECORDED HOLD SIGNAL
 - LEVEL METER: Level of the recording being played back.
 - PLAY BUTTON: Playback of the recording.
- DELETE FILE: Delete the Hold signal file from the MAGIC THipPro

Studio Audio Assignment (1)

Local	Studio Audio Assignme	ent							
MAGIC THipPro ACip3 1									
Operation Settings	Audio Assignment H	OLD Signal Definition							
Clients / Security Studio Definition	Studio	Fader 1		Fader 2		HOLD		Additional On Air	ACconnect On Ai
Database User Content Filter	1 : Studio 1	Fixed		On Air 12	•	External HOLD 1	•	Fix:1,2,3,4	AC, AC
News Desk Pool Mode & Audio Line	2 : Studio 2	On Air 5	•	On Air 6	•	External HOLD 2	-	5,6,7,8,M	AC
Internal HOLD Signals <mark>Studio Audio Assignment</mark>	3 : Prod 1	On Air 9	•		•	Music on hold	•]	AC
Clients Audio Assignment PhonerSet Audio Assignmen	4 : Prod 2	On Air 10	•		•	Music on hold	•]	AC
Clients Restrictions Signal Processing	5 : Studio 5	On Air 11	•	Off Conference 5	•	Daily Weather	•]	AC
Line Labels Studio Settings	6 : News Desk		•		•	External HOLD 1	•]	AC
- Auto Answer									
Answering Machine									
Night Service DTMF									
Actions ⊕ GPIO									
Ember + Consumer Extension									
- System Settings									
Line Interface									
Caller Line Grouping									
VoIP (LAN/SIP)									
Audio Interface									
PRETALK Streaming AES67	Caution: Invalid settin	gs are red!	Set	tings for this client have	gray b	ackground colour.			
LAN Interface									
Studio Audio Assignment (2)

- Define which audio lines are used in the studios on the AUDIO ASSIGNMENT tab of the STUDIO AUDIO ASSIGNMENT page.
- Settings that are not valid are displayed in red.
- STUDIO: Displays the name of the studio as defined on the STUDIO DEFINITION configuration page.
- By default, the system presents the same two On-Air fader buttons on each telephone line. Alternative assignments can be defined under ADDITIONAL ON AIR.
- FADER 1: Select an audio line from the drop-down list for On-Air fader 1.
 - ON AIR N: Assigns the On-Air audio line to fader 1.
 - HIDDEN: The fader 1 button is not displayed on the main panel of the LAN Client and Screener Client PC software.

- NOT USED: The fader 1 button is shown on the main panel of the LAN Client PC software but deactivated. The fader 1 button is not displayed on the main panel of the Screener Client PC software.
- FADER 2: Select an audio line from the drop-down list for On-Air fader 2.
 - ON AIR N: Assigns the On-Air audio line to fader 2.
 - OFF CONFERENCE N: Assigns the off-conference audio line of the respective studio to fader 2.
 - NOT USED : The fader 2 button is not displayed on the main panel of the LAN Client and Screener Client PC software.

Studio Audio Assignment (3)

- HOLD: Select a Hold signal from the drop-down list.
 - ON AIR: Depending on the configuration of ADDITIONAL ON AIR:
 - OFF or USE ADDITIONAL ON AIR LINES: Use the mixminus (clean feed) of the last used On-Air audio line.
 - FIXED ROUTING TO CALLER LINES: Use the Mixminus (clean feed) of the respective On-Air audio line.
 - ON AIR N: Use the Mix-minus (clean feed) of a specific On-Air audio line.
 - Internal Hold signal identified by its name: Use a hold signal which is stored on the MAGIC THipPro as defined on the INTERNAL HOLD SIGNALS configuration page.
 - EXTERNAL HOLD SIGNAL N: Use an external audio signal as defined on the MODE & AUDIO LINE configuration page.
 - STUDIO RELATED HOLD: Only available for studios 3-6. If a line is set to HOLD by the user, the system checks the preceding studios in ascending order if the line is available there. If it finds a studio, the THipPro selects the HOLD signal of that studio.

- ADDITIONAL ON AIR: Configure more complex distributions of audio lines here. Click on the cell to open the configuration window:
 - FIXED ROUTING TO CALLER LINES: Enable this option to set Fader 1 to a separate audio line for each telephone line. Any On-Air audio line can be assigned to as many telephone lines as desired. The fixed routing mode can only be configured per studio, not per client.

Fixed routing to ca	aller lines
Line 5 : CALL IN	On Air 5 🛛 🗸
Line 6 : CALL IN	On Air 6 🛛 🗸
Line 7 : CALL IN	On Air 7 🔷 🗸
Line 8 : VIP	On Air 8 🛛 🗸
ОК	Cancel



Studio Audio Assignment (4)



 USE ADDITIONAL ON AIR LINES: Enable this option to assign three or more On-Air audio lines to the telephone lines of the studio. The audio lines of the studio will also be available on the ACconnect lines. Access these audio lines via long clicking the ON AIR buttons on the main panel of the LAN Client PC software. They are presented in a pop-up window.

- SHOW ALL LINES ON EACH FADER (*): When ADDITIONAL ON AIR LINES are configured, the On-Air audio line of Fader 1 is not provided in the pop-up window of Fader 2 and vice versa. Enable this option to include these On-Air audio lines in the pop-up windows as well. An asterisk (*) is displayed in the Additional On-Air column of the table to indicate that this option is enabled.
- MULTI FADER MODE (M): Enable this option to display up to four On-Air buttons on the main panelof the LAN Client PC software when ADDITIONAL ON AIR LINES are configured. The letter M (M) is displayed in the Additional On-Air column of the table to indicate that this option is enabled. (This setting only affects the LAN Client PC software.)



Studio Audio Assignment (5)

AC Line 1	AC ON AIR \sim
AC Line 2	On Air 1 \sim
ОК	Cancel

- ACCONNECT ON AIR: Define the default On-Air audio line of the available ACconnect lines on the LAN Client PC software.
 - AC ON AIR: The native audio interface of the Codec as configured on the ACCONNECT configuration page.
 - ON AIR N: An audio line of the MAGIC THipPro. The audio signal is streamed to the MAGIC THipPro with limited audio quality. The native audio interface remains available via long click on the On-Air button.
 - Note: This configuration does not affect the Screener Client PC software.

Studio Audio Assignment (7)

onfiguration								
Local	Studio Audio Assignmen	nt						
MAGIC THipPro ACip3 1								
Operation Settings	Audio Assignment HO	LD Signal Definition						
Clients / Security						-		
Studio Definition	Studio	HULD	Intro		Repetitions	Pause	HULD	Label
Database User Content Filter	1 : Studio 1	External HOLD 1	Announcement	•	1	 without pause 	-	HOLD
News Desk Pool Mode & Audio Line	2 : Studio 2	External HOLD 2	Announcement	•	3	- 2 seconds	-	HOLD
- Internal HOLD Signals	3 : Prod 1	Music on hold				without pause	-	HOLD
	4 : Prod 2	Music on hold				without pause	•	HOLD
	5 : Studio 5	Daily Weather				without pause	-	HOLD
Signal Processing Line Labels	6 : News Desk	External HOLD 1	Intro off	•				HOLD
Studio Settings								
Auto Answer								
Intro / Data Privacy Query								
Minkt Service								
DTME								
Actions								
E GPIO								
Ember + Consumer Extension								
- System Settings								
General								
- Line Interface								
Caller Line Grouping								
VoIP (LAN/SIP)								
- Audio Interface								
PRETALK Streaming	Caution: Invalid sotting:	are red	Sattings for this client has	ue arau k	a ack ground colour			
AES67	Caution, invalid setting:	s are reu!	Setungs for this client has	ve gray t	Jackyround Colour.			
LAN Interface								
VLAN 🗸								

Studio Audio Assignment (8)

- Define the details of the Hold signals on the HOLD SIGNAL DEFINITION tab of the STUDIO AUDIO ASSIGNMENT page.
- Settings that are not valid are displayed in red.
- STUDIO: Displays the name of the studio as defined on the STUDIO DEFINITION page.
- HOLD: Displays the Hold signals as it is configured on the AUDIO ASSIGNMENT tab of the STUDIO AUDIO ASSIGNMENT page.
- INTRO: An external Hold signal or an On-Air Hold signal can be preceded by an intro when a call is accepted directly onto Hold. This is usually used with Auto Answer onto Hold.
 - INTRO OFF: No Intro. When a call is accepted onto hold the configured hold signal starts playing immediately.
 - Internal Hold signal identified by its name.

- REPETITIONS: An intro can be played up to seven times.
- PAUSE: Set the pause between the repetitions of the intro to 0 – 7 seconds.
- HOLD LABEL: Define the inscription on the Hold button on the main panel of the LAN Client PC software.



Clients Audio Assignment (1)

Local MAGIC THipPro ACip3 1 Operation Settings	Audio Assignment HOL	D Signal Definition												
Operation Settings Clients / Security Studio Definition Database	Audio Assignment HOL	D Signal Definition												
Clients / Security Studio Definition Database	Client													
- Studio Definition	Client	Charles Assessed												
Database		Studio Access		Pretalk		Fader 1		Fader 2		HOLD		Add. On Air	C	onference
					_									
User Content Filter	1 : S1-Presenter 1	1	-	1	•	Studio	•	Studio	-	Studio	•	Studio	TALK	AIR 🗸
News Desk Pool	2. C1 December 2			2		Church .		Church -		Charles		Charles	PRE	ON LA
Mode & Audio Line	2:51-Presenter 2	1	•	2	•	Studio	•	514010	•	Studio	•	Studio	TALK	AIR 🚩
Internal HOLD Signals	3 : S1-Screener	1	-	3	-	On Air 11	-	On Air 12	-	Music on hold	-		- PRE	V 0N
Studio Audio Assignment				-									IALK	
Clients Audio Assignment	4 : S2-Presenter 1	2	-	4	•	Studio	-	Studio	-	Studio	•			
PhonerSet Audio Assignmen											_			
Clients Restrictions	5 : S2-Presenter 2	2	-	5	•	Studio	-	Studio	-	Studio	•		▼ PRE TALK	
Signal Processing			_		_						_			
Line Labels	6: S2-Screener	2	-	6	•	Studio	•	Studio	-	Studio	•	Studio	TALK	
Auto Apower	7 0 11	2		7		er r				с. г.			PRE	
Intro / Data Privacy Query	7 : Prod I	3	•		•	Studio	•		•	Studio	•		TALK	AIR
Answering Machine	8 · Prod 2	AC: 1.2		8	-	Studio	-		-	Studio	-		PRE	
Night Service	0.11002	A0. 1,2				510010				510010			TALK	AIR
DTMF	9 : Technician	5,1,2,3,4,6	-	Dynamic	•	Studio	-	Studio	-	Studio	•	Studio	- PRE	
Actions													IHEK	HIRT
🖶 - GPIO	News Desk Client	6	-	Dynamic	-					Studio	-		PRE	
Ember + Consumer Extensior														
System Settings														
General														
Line Interface														
Caller Line Grouping														
VoIP (LAN/SIP)														
- Audio Interface														
PKETALK Streaming	Caution: Invalid settings	are red!		Settings for th	nis clie	ent have gray	backgi	round colour.						
AE 507														
VLAN														
VLAN V														



Clients Audio Assignment (2)

- Define which audio lines are used by the clients on the AUDIO ASSIGNMENT tab of the CLIENTS AUDIO ASSIGNMENT page.
- Settings that are not valid are displayed in red.
- CLIENT: Displays the name of the client as defined on the CLIENTS / SECURITY configuration page.
- By default, the system presents the same two On-Air fader buttons on each telephone line. Alternative assignments can be defined under ADDITIONAL ON AIR.
- STUDIO ACCESS: Click on a cell to open the studio access configuration window.
 - Select the studios to which the client should have access.
 - DEFAULT STUDIO: Select the studio to which the client connects after starting the PC software.



 SHOW AUDIO CODEC SELECTION: Switches to the exclusive audio codec mode if a MAGIC ACip3 audio codec is connected the MAGIC THipPro via ACconnect. In this mode no telephone lines are displayed on the main panel of the LAN Client and Screener Client PC software. Just the audio codec channels are available to the user.



Clients Audio Assignment (3)

Base Studio:	Studio 1 🛛 🗸 🗸
Audio Codec 1	AES 1 🗸
Audio Codec 2	AES 2 V
Show Stu	dio Selection
ОК	Cancel

- AUDIO CODEC SELECTION: In this mode no telephone lines are displayed on the main panel of the LAN Client and Screener Client PC software. Just the audio codec channels of a MAGIC ACip3 connected to the MAGIC THipPro via ACconnect are available to the user.
 - BASE STUDIO: Select a studio for the client. The client adheres to the studio related settings such as database, logo, recording folder, etc.
 - AUDIO CODEC N
 - Enable a codec channel to display it on the main panel of the PC software.

- Select the audio interface of the audio codec for this client.
- SHOW STUDIO SELECTION: Switches to the standard telephone hybrid mode. In this mode telephone lines and optional audio codec lines are displayed on the main panel of the LAN Client and Screener Client PC software.



Clients Audio Assignment (4)

- PRETALK: Assign a pretalk audio line exclusively to a client:
 - PRETALK N: An audio interface assigned on the MODE / AUDIO LINE configuration page.
 - PHONERSET PRETALK N: Use the MAGIC PhonerSet telephone as pretalk interface for a client using the PC software.

The RX and TX signal of the PhonerSet can be recorded at the PC software using the RECORD button. There must be a DYNAMIC audio stream configured on the MODE & AUDIO LINE configuration page. The dynamic stream must be available when the PhonerSet goes to Pretalk to be able to record.

- DYNAMIC: The client will allocate a pretalk stream whenever the user clicks on the pretalk button on the main panel. If all pretalk streams are already in use the pretalk button turns white.
- HIDDEN: The pretalk button is not displayed on the main panel of the PC software.

- NOT USED: The pretalk button is displayed but deactivated on the main panel of the LAN Client PC software. The pretalk button is not displayed on the main panel of the Screener Client.
- FADER 1: Select an audio line from the drop-down list for On-Air fader 1.
 - STUDIO: The client uses the audio line which is configured on the STUDIO AUDIO ASSIGNMENT configuration page. This is the recommended setting especially if a user can access more than one studio.
 - ON AIR N: Assigns the On-Air audio line to fader 1.
 - HIDDEN: The fader 1 button is not displayed on the main panel of the LAN Client and Screener Client PC software.
 - NOT USED: The fader 1 button is shown on the main panel of the LAN Client PC software but deactivated. The fader 1 button is not displayed on the main panel of the Screener Client PC software.

Clients Audio Assignment (5)

- FADER 2: Select an audio line from the drop-down list for On-Air fader 2.
 - STUDIO: The client uses the audio line which is configured on the STUDIO AUDIO ASSIGNMENT configuration page. This is the recommended setting especially if a user can access more than one studio.
 - ON AIR N: Assigns the On-Air audio line to fader 2.
 - NOT USED : The fader 2 button is not displayed on the main panel of the LAN Client and Screener Client PC software.
- HOLD: Select a Hold signal from the drop-down list.
 - STUDIO: The client uses the audio line which is configured on the STUDIO AUDIO ASSIGNMENT configuration page. This is the recommended setting especially if a user can access more than one studio.
 - ON AIR N: Use the Mix-minus (clean feed) of a specific On-Air audio line.

- Internal Hold signal identified by its name: Use a hold signal which is stored on the MAGIC THipPro as defined on the INTERNAL HOLD SIGNALS configuration page.
- EXTERNAL HOLD SIGNAL N: Use an external audio signal as defined on the MODE & AUDIO LINE configuration page.



Clients Audio Assignment (6)

- ADDITIONAL ON AIR: Configure more complex distributions of audio lines here. Click on the cell to open the configuration window.
 - STUDIO DEFINED: The client uses additional On-Air settings which are configured on the STUDIO AUDIO ASSIGNMENT configuration page. This is the recommended setting especially if a user can access more than one studio and it is also the only way to use fixed routing to caller lines.

Studio defined
Use additional ON AIR lines
ON AIR 1
ON AIR 2
ON AIR 3
ON AIR 4
ON AIR 5
ON AIR 6
ON AIR 7
ON AIR 8
ON AIR 9
ON AIR 10
ON AIR 11
ON AIR 12
Multi Fader Mode (M)
OK Cancel

Clients Audio Assignment (7)

- USE ADDITIONAL ON AIR LINES: Enable this option to assign three or more On-Air audio lines to the telephone lines of the studio. The audio lines of the studio will also be available on the ACconnect lines. Access these audio lines via long clicking the ON AIR buttons on the main panel of the LAN Client PC software. They are presented in a pop-up window.
- SHOW ALL LINES ON EACH FADER (*): When ADDITIONAL ON AIR LINES are configured, the On-Air audio line of Fader 1 is not provided in the pop-up window of Fader 2 and vice versa. Enable this option to include these On-Air audio lines in the pop-up windows as well. An asterisk (*) is displayed in the Additional On-Air column of the table to indicate that this option is enabled.
- MULTI FADER MODE (M): Enable this option to display up to four On-Air buttons on the main panel of the LAN Client PC software when ADDITIONAL ON AIR LINES are configured. The letter M (M) is displayed in the Additional On-Air column of the table to indicate that this option is enabled. (This

setting only affects the LAN Client PC software.)





Clients Audio Assignment (8)

- CONFERENCE: By default, only one telephone line at a time can be set to a specific audio line. This means only one caller can be in pretalk on a client. And only one caller can be put on an On-Air Fader in a studio. Enable conferencing to enable the client to put more than one telephone line at a time to an audio line. The MAGIC THipPro mixes the audio signals of all callers and the audio interfaces internally.
 - PRETALK: Enable this option to allow the client to put more than one caller at the same time in pretalk. The audio signals are mixed by the THipPro. All callers and the user can hear each other.
 - ON AIR: Enable this option to allow the client to put more than one caller at the same time on the same On-Air Fader. The audio signals are mixed by the THipPro. All callers can hear each other and the Mixminus (clean feed).

Clients Audio Assignment (9)

Configuration							×
Local	Clients Audio Assignmen	t					
MAGIC THipPro ACip3 1							
📮 Operation Settings 📃 🔨	Audio Assignment HOL	D Signal Definition					.
Clients / Security	Client		Intro	Popolitiona	Pausa	HOLD Labol	1
	Client	HOLD	mao	nepeutions	Fause		
News Desk Pool	1 : S1-Presenter 1	Studio				HOLD	
Mode & Audio Line Internal HOLD Signals	2 : S1-Presenter 2	Studio				HOLD	
Studio Audio Assignment Clients Audio Assignment	3 : S1-Screener	Studio				HOLD	
PhonerSet Audio Assignmen Clients Restrictions	4 : S2-Presenter 1	Studio				HOLD	
Signal Processing	5 : S2-Presenter 2	Studio				HOLD	
	6 : S2-Screener	Studio				HOLD	
	7 : Prod 1	Studio				HOLD	
Night Service	8 : Prod 2	Studio				HOLD	
- Actions	9 : Technician	Music on hold			1 second	• HOLD	
⊕- GPIO Ember+ Consumer Extension	News Desk Client	Studio				HOLD	
System Settings	News Desk Client	510010					
General							
Line Interface							
Caller Line Grouping							
VoIP (LAN/SIP)							
Audio Interface							
PRETALK Streaming						3	1
LAN Interface	Caution: Invalid settings	are red!	Settings for this client ha	ive gray background colour.			
VIAN							
DHD Audio Matrix 🗸 🗸							
Client ID: 9 Studio: 2					ОК	Cancel Apply Now	

Clients Audio Assignment (10)

- Define the details of the Hold signals on the HOLD SIGNAL DEFINITION tab of the CLIENTS AUDIO ASSIGNMENT page.
- Settings that are not valid are displayed in red.
- CLIENT: Displays the name of the client as defined on the CLIENTS / SECURITY page.
- HOLD: Displays the Hold signals as it is configured on the AUDIO ASSIGNMENT tab of the CLIENTS AUDIO ASSIGNMENT page.
- If the Hold signal is set to STUDIO, the further parameters can only be changed on the HOLD SIGNAL DEFINITION tab of the STUDIO AUDIO ASSIGNMENT configuration page.
- INTRO: An external Hold signal or an On-Air Hold signal can be preceded by an intro when a call is accepted directly onto Hold. This is usually used with Auto Answer onto Hold.

- INTRO OFF: No Intro. When a call is accepted onto hold the configured hold signal starts playing immediately.
- Internal Hold signal identified by its name.
- REPETITIONS: An intro can be played up to seven times.
- PAUSE: Set the pause between the repetitions of the intro to 0 – 7 seconds.
- HOLD LABEL: Define the inscription on the Hold button on the main panel of the LAN Client PC software.



Remote Light Audio Assignment (1)

Configuration **Remote Light Audio Assignment** Local MAGIC THipPro ACip31 Audio Assignment HOLD Signal Definition Operation Settings \wedge Clients / Security Remote Device Pretalk Fader 1 Fader 2 HOLD Studio Definition Database 🝷 On Air 11 • 🝷 On Air 10 ▼ External HOLD 1 10 News Desk Pool Mode & Audio Line • External HOLD 2 🝷 On Air 12 🝷 On Air 13 2 11 Internal HOLD Signals Studio Audio Assignment 🝷 On Air 14 🝷 On Air 15 External HOLD 3 • 3 12 Clients Audio Assignment Remote Light Audio Assignm • --• 4 PhonerSet Audio Assignment Clients Restrictions • • • • 5 Signal Processing Line Labels • -• • 6 Studio Settings Auto Answer Intro / Data Privacy Query Answering Machine Night Service DTMF Actions — Telephone Client Application 🛓 GPIO -Ember+ Consumer Extension ---- Ember + Dial Pad Extension System Settings General Line Interface Caller Line Grouping VoIP (LAN/SIP) Collaboration Server Caution: Invalid settings are red! Settings for this client have gray background colour. Audio Interface PRETALK Streaming \mathbf{v} Client ID: 5 Studio: 4 OK. Abbrechen Apply Now

Remote Light Audio Assignment (2)

- Define which audio lines are used by the clients which control the THipPro via the Remote Light Protocol.
- PRETALK: Assign a pretalk audio line exclusively to a client:
 - PRETALK N: An audio interface assigned on the MODE / AUDIO LINE configuration page.
 - NOT USED: No audio line assigned for pretalk.
- FADER 1: Select an audio line from the drop-down list for On-Air fader 1.
 - ON AIR N: Assigns the On-Air audio line to fader 1.
 - FADER ON AIR: Each line has its own audio line (line 1 = On Air 1, line 2 = On Air 2, ...)
 - NOT USED: No audio line assigned for fader 1.
- FADER 2: Select an audio line from the drop-down list for On-Air fader 2.
 - ON AIR N: Assigns the On-Air audio line to fader 1.
 - FADER ON AIR: Each line has its own audio line (line 1 = On Air 1, line 2 = On Air 2, ...)

- NOT USED: No audio line assigned for fader 1.
- HOLD : Select a Hold signal from the drop-down list.
 - ON AIR N: Use the Mix-minus (clean feed) of a specific On-Air audio line.
 - Internal Hold signal identified by its name: Use a hold signal which is stored on the MAGIC THipPro as defined on the INTERNAL HOLD SIGNALS configuration page.
 - EXTERNAL HOLD SIGNAL N: Use an external audio signal as defined on the MODE & AUDIO LINE configuration page.
 - NOT USED: No audio source assigned for hold.



Remote Light Audio Assignment (3)

Configuration							
Local	Remote Light Audio As	signment					
MAGIC THipPro ACip3 1	A C A C A UC	I D Signal Definition					
Operation Settings	Audio Assignment	CD Signal Dennition					
	Remote Device	HOLD	Intro		Repetitions	Pause	HOLD Label
Database		5					
News Desk Pool		External HULD 1	Internal HULD 1	•	•	without pause	
Mode & Audio Line	2	External HOLD 2	Intro off	-			
Internal HOLD Signals							
	3	External HOLD 3	Intro off	-			
Remote Light Audio Assignm							
PhonerSet Audio Assignment	4						
Clients Restrictions	5						
Studio Settings	6						
- Auto Answer							
Intro / Data Privacy Query							
- Answering Machine							
Night Service							
DTMF							
- Actions							
GPIO							
Ember + Consumer Extension							
Ember + Dial Pad Extension							
System Settings							
General							
Line Interface							
Caller Line Grouping							
VoIP (LAN/SIP)							
Collaboration Server	Caution: Invalid setting	s are red!	Settings for this client hav	ve orav b	oackground colour.		
PRFTALK Streaming	3		g	- <u>-</u> , -, -, -			
Client ID: 5 Studio: 4							
Cheriche, 5 Stadio, 4						OK Abbred	then Apply Now

Remote Light Audio Assignment (4)

- Define the details of the Hold signals on the HOLD SIGNAL DEFINITION tab of the CLIENTS AUDIO ASSIGNMENT page.
- Settings that are not valid are displayed in red.
- REMOTE DEVICE: Number of the workplace.
- HOLD: Displays the Hold signals as it is configured on the AUDIO ASSIGNMENT tab of the REMOTE LIGHT AUDIO ASSIGNMENT page.
- INTRO: An external Hold signal or an On-Air Hold signal can be preceded by an intro when a call is accepted directly onto Hold. This is usually used with Auto Answer to Hold.
 - INTRO OFF: No Intro. When a call is accepted onto hold the configured hold signal starts playing immediately.
 - Internal Hold signal identified by its name.
- REPETITIONS: An intro can be played up to seven times.

- PAUSE: Set the pause between the repetitions of the intro to 0 – 7 seconds.
- HOLD LABEL: Configure the label for the Hold button. It is shown on PC clients when the line was operated by a Remote Light workplace.



PhonerSet Audio Assignment (1)

Configuration								
Local	PhonerSet Audio Assign	ment						
MAGIC THipPro ACip3 1								
📮 Operation Settings 📃 🔺	Audio Assignment							
Clients / Security								
Studio Definition	PhonerSet	Studio Acces	s Fader 1	Fader 2	HOLD		Conference	Label
Database User Content Filter	PhonerSet 1	1,2,3,4,5,6	- Studio	▼ Studio	- Studio	▼ PF TA		Phone
News Desk Pool Mode & Audio Line	PhonerSet 2	3,4	- Studio	✓ Studio	▼ Studio	▼ PF TA		Phone
- Internal HOLD Signals	PhonerSet 3	1,2	- Studio	- Studio	- Studio	▼ PF TA		Phone
	PhonerSet 4	1	- Studio	- Studio	- Studio	▼ PF TA		Phone
	PhonerSet 5	2	🝷 On Air 5	• On Air 6	• STUDIO 2: H	DLD 🔻 🎮		Phone
Signal Processing Line Labels	PhonerSet 6	2	• On Air 7	• On Air 8	• STUDIO 2: H	DLD 🔻 PR		Phone
Auto Answer								
Night Service								
Actions								
Ember + Consumer Extensior								
System Settings								
line Interface								
- Caller Line Grouping								
VoIP (LAN/SIP)								
- Audio Interface								
- PRETALK Streaming	Caution: Invalid settings	s are red!	Setting	is for this client have gr	ay background colour.			
LAN Interface								
VLAN								
ent ID: 9 Studio: 5						0)K Cancel	Apply Now

PhonerSet Audio Assignment (2)

- Define which audio lines are used by the PhonerSet clients on the AUDIO ASSIGNMENT tab of the PHONERSET AUDIO ASSIGNMENT page.
- STUDIO ACCESS: Click on a cell to open the studio access configuration window.



- Select the studios to which the PhonerSet workplace will have access.
- DEFAULT STUDIO: Select the studio to which the PhonerSet app connects after starting up.
- FADER 1/2: Select an audio line from the dropdown list for On-Air fader 1/2.

- STUDIO: The PhonerSet uses the audio line which is configured on the STUDIO AUDIO ASSIGNMENT configuration page. The current studio is taken into account. This is the recommended setting especially if a user can access more than one studio.
- ON AIR N: Assigns the On-Air audio line to the fader.
- NOT USED : The On-Air fader button is not displayed on the main panel of the PhonerSet app.



PhonerSet Audio Assignment (3)

- HOLD: Select a Hold signal from the drop-down list.
 - STUDIO: The client uses the audio line which is configured on the STUDIO AUDIO ASSIGNMENT configuration page. The current studio is taken into account. This is the recommended setting especially if a user can access more than one studio.
 - HOLD (STUDIO N): Use the Hold signal of a specific studio.
 - HOLD (NEWS DESK CLIENT): Use the Hold signal of the News Desk Client configured on the Clients Audio Assignment page.
 - NOT USED: The Hold button is not displayed on the main panel of the PhonerSet app.
- CONFERENCE: By default, only one telephone line at a time can be set to a specific audio line. This means only one caller can be in pretalk on a client. And only one caller can be put on an On-Air Fader in a studio. Enable conferencing to enable the PhonerSet to put more than one telephone line at a

time to an audio line. The MAGIC THipPro mixes the audio signals of all callers and the audio interfaces internally.

- PRETALK: Enable this option to allow the PhonerSet to put more than one caller at the same time in pretalk. The audio signals are mixed by the THipPro. All callers and the user can hear each other.
- ON AIR: Enable this option to allow the PhonerSet to put more than one caller at the same time on the same On-Air Fader. The audio signals are mixed by the THipPro. All callers can hear each other and the Mix-minus (clean feed).
- LABEL: Click to change the label on the Pretalk button of the MAGIC THipPro LAN Client PC software which has the PhonerSet configured as pretalk audio line on the CLIENTS AUDIO ASSIGNMENT configuration page. Font and font size can also be changed.

Clients Restrictions (1)

Local	Clients Restrictions												
MAGIC THipPro ACip3 1													
- Operation Settings	-												
Clients / Security	A 11												
Studio Definition	Client	Long Click Duration		Drop Line		Drop All		Lock Line		Lock All		CF	
Database	1 : S1-Presenter 1	250 msec	-	forbidden	-	forbidden	-	allowed	-	allowed	-	allowed	
User Content Filter	2 : S1-Presenter 2	1000 msec		forbidden	•	forbidden	-	allowed	-	allowed	-	allowed	
Mode & Audio Line						1010100011							
Internal HOLD Signals	3:S1-Screener	1000 msec	•	allowed	-	allowed	•	allowed	-	allowed	•	allowed	
- Studio Audio Assignment	4 : S2-Presenter 1	1000 msec	-	long click	-	long click	•	allowed	-	allowed	•	allowed	
Clients Audio Assignment	5 : S2-Presenter 2	1000 msec	-	long click	-	long click	-	allowed	-	allowed	-	allowed	
- PhonerSet Audio Assignmen	6 : S2-Screener		•	allowed	•	allowed	•	allowed	-	allowed	•	allowed	
- Signal Processing	7 : Prod 1		•	allowed	•	allowed	•	allowed		allowed	•	allowed	
Line Labels													
Studio Settings	8 : Prod 2	1000 msec	-	allowed	•	allowed	•	allowed	-	allowed	-	allowed	
- Auto Answer	9 : Technician	1000 msec	-	allowed	•	allowed	•	allowed	-	allowed	•	allowed	
Intro / Data Privacy Query													
- Answering Machine													
Night Service													
DTMF													
Actions													
🖶 - GPIO													
Ember + Consumer Extensior													
System Settings													
General													
Line Interface		<											
Caller Line Grouping													
VoIP (LAN/SIP)													
- Audio Interface													
PRETALK Streaming		Cattin	una far Haia ali	ant have at	au baaka	way und a alay ut						6 1 C 11	_
		Setur	igs for this cir	ent nave yn	ау раску	irouna coloal.					Di	efault Settings	
. AN Interface													

Clients Restrictions (2)

- Manage permissions for each client on the CLIENTS RESTRICTIONS page.
- Possible values for most of the functions are:
 - ALLOWED: The client is allowed to use that function.
 - FORBIDDEN: The client is not allowed to use that function.
 - LONG-CLICK: Some functions could be made accessible by long clicking on a button.
- Each line of the table shows the permissions of a client.
- Each column controls a function :
 - LONG CLICK DURATION: Specify how long the user must press the button so that it is recognized as "long clicked" (250 ms - 2000 ms).
 - DROP LINE: Define if the client can disconnect a line. However, the button is always displayed on the main panel of the PC software. (allowed, forbidden, long-click)

- DROP ALL: Define if the client can disconnect all lines of a line group. (allowed, forbidden, long-click)
- LOCK LINE: Define if the client can lock lines so all incoming calls are dismissed automatically. (allowed, forbidden, long-click)
- LOCK ALL: Define if the client can lock all lines of a line group. Set to forbidden to integrate LOCK ALL with the LIMIT CALL IN function. (allowed, forbidden long-click)
- LIMIT CALL IN: Define if a client can limit the number of simultaneous incoming calls on a line group. (allowed, forbidden long-click)
- CF: Define if the client can forward calls. (allowed, forbidden, long-click)
- CF TOGGLE: Define if the client can switch between the first and the second default call forwarding telephone number on the LAN Client PC software. (allowed, forbidden, long-click)
- VOLUME CONTROL: Define if the client can adjust the level of the caller via the LAN Client PC software. (allowed, forbidden)

Clients Restrictions (3)

- AGC TOGGLE: Define if the client can switch the AGC on and off on the main panel of the LAN Client PC software. (allowed, forbidden)
- SEND DTMF: Define if the client can send DTMF tones via the main panel of the LAN Client PC software. (allowed, forbidden)
- RESET DTMF: Define if the client can reset the display of received DTMF tones. (allowed, forbidden, long-click)
- HOLD READY: Define if the client can set the state of line to Hold ready by clicking the HOLD button twice in the LAN Client and Screener Client PC software (allowed, forbidden)
- ACTIVATE LINE: Manage how call details (audio line, phone number, name, ...) on the line on LAN Client and Screener Client PC software are shown.
 - ALWAYS: The call details are always displayed.
 - HOLD READY: The call details are only shown when the caller was set to HOLD READY by another client. Otherwise, the line is disabled.

- INCOMING CALLS AND HOLD READY: The call details are only shown when the caller was set to HOLD READY by another client or an incoming call is ringing. Otherwise, the line is disabled.
- ANONYMITY REQUEST: A caller may request that his name not be mentioned On-Air. The screener then sets the "Anonymous" flag in the caller's record. This restriction manages how the PC software displays the caller's data on the main panel:
 - RESPECT: The LAN Client PC software as well as the Screener Client PC software in Presenter mode display * Anonymity Requested *. The Screener Client PC software always displays the caller's data.
 - IGNORE: The PC software displays the caller's data.
- MANAGE PRESETS: Define if the client can open the preset manager on the PC software. (allowed, forbidden)
- LOAD SUPER PRESET: Define if the client can load a super preset from the PC software. (allowed, forbidden)



Clients Restrictions (4)

- LOAD PRESET: Define if the client can load a preset from the PC software. (allowed, forbidden)
- SELECT STUDIO: Manage how a client which has access to more than one studio can switch between studios:
 - ALLOWED: The user may switch between studios.
 - FORBIDDEN: The client cannot switch between studios at all.
 - GP INPUT: The client can only switch between studios via a GP input (TTL, DHD SetLogic, Ember+)
- PHONE BOOK: Define if the client can use the phone book button on the menu bar of the LAN Client PC software. (allowed, forbidden, long-click)
- ENABLE DATA EDIT: Define if the client can create or change records in the phone book database via the PC software. (allowed, forbidden, long-click)
- VOICE DISGUISE: Define if the client can activate voice disguise for line groups from the menu bar of the PC software. (allowed, forbidden, long-click)
- ANSWERING MACHINE: Define if the client can activate the answering machine. (allowed, forbidden)

- NIGHT SERVICE: Define if the client can activate the night service. (allowed, forbidden)
- AUDIO CODEC LINE: Manage how ACconnect audio codec lines are displayed in the PC software.
 - ALLOWED: The ACconnect lines are displayed and fully operational.
 - ON AIR DISABLED: The ACconnect lines are displayed with the On-Air button disabled.
 - HIDDEN: The ACconnect audio codec lines are not displayed.
- RECEIVE GROUP CHAT: Define if group messages are displayed on the client's chat windows (yes, no)
- USER LOGIN: Define if a user can login to the user content filter form the PC software. (allowed, forbidden)
- ENABLE MCS VIDEO: Define if the software displays live video of a WebRTC or MS Teams call on that client. (MCS = MAGIC Collaboration Services)
- TOGGLE NDI OUTPUT: Define if the client is allowed to change video output via NDI of a WebRTC or MS Teams call.

Signal Processing (1)



Signal Processing (2)

- Define the signal processing parameters on the SIGNAL PROCESSING page.
- LINE SETTINGS:
 - AUTOMATIC GAIN CONTROL: The AGC controls the amplifier which processes the audio signal of the caller. Enable the AGC to maintain a certain audio level despite variations in the caller's voice or differences between callers. The AGC parameters can be modified under AUTOMATIC GAIN CONTROL SETTINGS (AGC) / EXPANDER.

The user can enable or disable the AGC for each call individually by clicking on the level meter on the main panel of the LAN Client PC software.

 EXPANDER: There are expander filters for all telephone line inputs and outputs. The expanders are always on. They lower the level of quiet audio signals even more to reduce noise. The threshold under AUTOMATIC GAIN CONTROL SETTINGS (AGC) / EXPANDER is used for AGC and the expander for received audio signals. The threshold for transmitted audio signals is -52 dBFS.

- AUTOMATIC GAIN CONTROL SETTINGS (AGC) / EXPANDER: Define the filter parameters for AGC and expander.
 - THRESHOLD: The AGC is only applied to audio signals above this level. The expander is only applied to audio signals below this level.
 - LEVEL: Define the target level for the AGC. The AGC tries to maintain this level for the audio signal of the caller. By default the amplifier has a range of 32 dB. Which means it can lower the signal by 16 dB and amplify the signal by 16 dB. If the target level is set higher than -20 dBFS the range of 32 dB remains but splits differently. The higher the target level the more amplification is possible at the cost of lowered possible attenuation.



Signal Processing (3)

 LIMITER: By default, the limiter clips the audio signal at 0 dBFS. If AGC is enabled the limiter threshold can be adjusted in the range between the AGC level and 0 dBFS.

The AGC reacts relatively slow to changes in the level of an audio signal. Otherwise, the AGC would constantly adjust the amplification and the caller's voice would sound unsteady.

Imagine a caller who starts to talk very quietly but suddenly gets very loud. The amplification would be high in the beginning and the sudden loud voice would get even louder until the AGC adjusts the amplification to the new level. The limiter can react within milliseconds and lower the audio signal immediately.

- SPEED: Define how fast the AGC should adjust to changes in the audio signal coming from the caller. (SLOW, MEDIUM, FAST, VERY FAST)
- VOLUME CONTROL DEFAULT VALUE: The level of the audio signal coming from the caller can be

adjusted manually in the LAN Client PC software if AGC is disabled. Define the default amplification here. It is set each time a call is disconnected so, the next call starts with the default value.

Signal Processing (4)

 ECHO CANCELLER: The echo canceller eliminates echo coming back from the caller in POTS, ISDN and VoIP mode. It is not used for HD-Voice calls. There is a dedicated echo canceller for each telephone line.

It is recommended to adjust the audio levels so that TX level displayed on the main panel of the PC software is between -18 dBFS and -12 dBFS.

- ACTIVE: Enables the echo cancellers. Especially analogue telephones cause strong echoes.
- LINE BASIS DELAY: The echo canceller can detect and eliminate echoes with a delay of up to 120 ms. Each telephone network has an individual minimum round-trip time for echo signals. This timespan can be ignored by the echo canceller. The defined line basis delay moves the 120 ms range of the echo canceller.

A value of e.g. 60 ms enables the hybrid to eliminate echoes which occur within 60 ms to 180 ms. Recommended values:

- POTS, ISDN: 0 ms
- POTS, ISDN with PBX: 40 ms
- VoIP: 60 ms
- LINE LEVEL OFFSET ATTENUATION (SEND): Define how much the level of the audio signal being sent over the telephone channel to the caller is attenuated. Decrease the value if the returned echo signal is too strong to be eliminated by the echo canceller.



Signal Processing (5)

- VOICE DISGUISE: Enable this option to add the voice disguise button to the line group menus on the main panel of the PC software. Use these buttons to enable the function on all lines of the respective line group.
 - PITCH: Set to UP to shift the voice to higher notes.
 Set to DOWN to shift the voice to lower notes.
 - RATIO: Define how strong the effect should be. Range: 1 (low) 4 (high)
- AUTO DUCKING OF CALLER: Define how much the caller's voice is attenuated when an audio signal is sent to the caller e.g. when the presenter speaks.
 Range: Off, -6 dB ... -42 dB
- DEFAULT SETTINGS: Sets the parameters on this page to factory default.

Line Labels (1)

Configuration				×
Local	Line Labels			
MAGIC THipPro ACip3 1			V 11	
📮 Operation Settings 📃 🔺	Line Labels		Variables	
Clients / Security	Line	Label	{index} Line index (1 based)	
Studio Definition	1	(arp) - (lineid)	{lineid} SIP user*	
Database	2	(grp) (inicid)	(and) Marca of the line aroun*	
Mode & Audio Line	2	(gip) - (inicid)	(gip) Name of the line group	
Internal HOLD Signals	3		(sipsrv) Used SIP server*	
	4	(grp) - (lineia)	{sipsrv#} 1: Main SIP Server	
	5	{grp} - {lineid}	2: Backup SIP Server	
PhonerSet Audio Assignmen	6	{grp} - {lineid}	{sipaut} Used SIP authentication*	
Clients Restrictions	7	{grp} - {lineid}	(sindian) CIP display name*	
Signal Processing	8	{grp} - {lineid}	(sipulsp) Sir ulsplay name	
Line Labels	9	{grp} - {lineid}	* A format specifier can be added.	
Studio Settings	10	{grp} - {lineid}	:-# Take only the first # characters	
Auto Answer	11	{grp} - {lineid}	Example: {lineid:4}	
Intro / Data Privacy Query	12	{grp} - {lineid}		
Answering Machine	13	{arp} - {lineid}		
	14	{orp} - {lineid}		
Actions	15	(grp) (incid)		
GPIO	16	(gip) (inicid)		
Ember + Consumer Extension	10			
	ACT	(lineid)		
General	AC 2	{lineid}		
Line Interface				
Caller Line Grouping				
VoIP (LAN/SIP)				
Audio Interface				
PRETALK Streaming				
AES6/		Default Settings		
VI AN		_		
DHD Audio Matrix				
Client ID: 9 Studio: 2			OK Cancel	Apply Now

Line Labels (2)

- Define the labels of all telephone lines displayed on the main panel of the PC software on the LINE LABELS page.
- LINE: Shows the line numbers of the telephone channels and ACconnect channels available in the system.
- LABEL: Enter any text. You may also mix text with the supported variables:
 - {index}: Line index
 - {lineid}: telephone number derived from the line interface settings.
 - VoIP: SIP User as defined on the VoIP (LAN / SIP) configuration page.
 - ISDN: MSN as defined on the MSN configuration page.
 - POTS: Phone number as defined on the POTS Phone Numbers configuration page.
 - {grp}: Name of the line group the telephone line is part of.

- {sipsrv}: Only in VoIP mode. SIP server name / address currently used.
- {sipsrv#}: Only in VoIP mode. 1 if the main SIP server is currently used. 2 if the backup SIP server is currently used.
- {sipaut}: Only in VoIP mode. SIP authentication as defined on the VoIP (LAN / SIP) configuration page.
- {sipdisp}: Only in VoIP mode. SIP display name as defined on the VoIP (LAN / SIP) configuration page.
- The output of variables in bold can be modified:
 - {...:#}: Use only the last # characters. (e.g. {lineid:4})
 - {...:-#}: Use only the first # characters.

Studio Settings (1)

Local	Studio Settings			
MAGIC THipPro ACip3	1			
Operation Settings	Studio 1 Studio 2 Prod 1 Pro	d 2 Studio 5 News Desk		
Clients / Security				
	Logo:			
Database	Z:\AVT\THipPro\AVT_P	ure.png	Browse	
News Desk Pool	· · ·			
Mode & Audio Line				
Internal HOLD Signals				
Studio Audio Assignment	PRETALK Streaming Record	ing Folder:		
 Clients Audio Assignment 		inas Studio 1	Browse	
- PhonerSet Audio Assignmen		· · · · · · · ·	DIOWSC	
— Clients Restrictions				
Signal Processing				
Line Labels	Social Media Server Client:	Client 3: S1-Screener V		
<mark>- Studio Settings</mark>				
Auto Answer	Preterred Language:	EN (English) ~		
Intro / Data Privacy Query	Social Media File Cache Fold	er:		
- Answering Machine		Studio 1	Browse	
			BIOMSC	
	Twitter Application:	<none></none>	~	
Actions				
Embary Concurrent Extension	Facebook Application:		~	
System Settings				
- General				
Caller Line Grouping				
- Audio Interface				
AES67				
LAN Interface				
VLAN				
DHD Audio Matrix	U			

Studio Settings (2)

- Define studio-oriented features on the STUDIO SETTINGS page.
- There is a tab for each studio.
- All clients of a studio need read and write access to the folders configured on this page.
- LOGO: Define the logo is displayed in the top right corner of the LAN Client and Screener Client PC software. If a user switches to another studio, the logo changes as well. If the logo cannot be found, each PC software client displays the logo defined in its local settings.
- PRETALK STREAMING RECORDING FOLDER: Define a central folder for all recordings made via Pretalk Streaming in this studio.
 - When CONTENT FILTERS are active the software stores the recordings in separate subfolders for each user login (1-16).

- It is recommended to delete files that are no longer needed, as the PC software monitors the folder to display all available recordings in the RECORDINGS list. A large folder slows down the software significantly.
- SOCIAL MEDIA SERVER CLIENT: A PC running the Screener Client PC software acts as social media server. The server connects to the social media service such as X (Twitter) and provides the other clients with social media content. The dedicated Screener Client should not be used for other purposes since downloading a lot of media files may block the Screener client PC software for some time.


Studio Settings (3)

- PREFERRED LANGUAGE: Define the default language for searching the social network. The language can be changed for individual searches in the search mask.
- SOCIAL MEDIA CACHE FOLDER: Define a folder to store pictures and other media. The cache provides fast access to these files.
- TWITTER APPLICATION: Select your X (Twitter) application which provides access to the social network. The application must be created via the Local Settings of the Screener Client PC software.
- FACEBOOK APPLICATION: Not supported now.



Auto Answer (1)

Configuration		×
Local	Auto Answer	
MAGIC THipPro ACip3 1	Auto Answer on all channels	
Clients / Security Studio Definition	Channels	
Database News Desk Pool	Channel Index 1 2 3 4 5 6 7 8 9 10 11 12 13 14 CF CF	
Mode & Audio Line	Line Groups CALL IN VIP CALL IN VIP PR PR NEWSDESKS	
	Auto Answer Channel	
Clients Audio Assignment PhonerSet Audio Assignmen Clients Restrictions Signal Processing		
Line Labels Studio Settings Auto Answer	Answer call on audio line: Associated Line Group V	
Intro / Data Privacy Query Answering Machine Night Service	Auto Answer Delay: 2 sec	
DTMF	Line Grp. 1 Line Grp. 2 Line Grp. 3 Line Grp. 4 Line Grp. 5 Line Grp. 6 Line Grp. 7 Line Grp. 8	
- Actions	CALL IN VIP CALL IN VIP PROD PROD NEWSDESKS 8	
Ember + Consumer Extension	HOLD (Associate ON AIR Studio) (Associated Studi, Studio) (Associate ON AIR (Associated Studi, Studio) (Associated Studi, Studio) (Associated Studi, Studio) (Associated Studi, Studio)	ociate 🖵
General Line Interface Caller Line Grouping VoIP (LAN/SIP)	<	>
Audio Interface PRETALK Streaming AES67		
Client ID: 9 Studio: 2	OK Cancel Apply Now	

Auto Answer (2)

- Define how the system accepts incoming calls automatically on the AUTO ANSWER page.
- AUTO ANSWER ON ALL CHANNELS: Select to activate the feature on all telephone channels.
- AUTO ANSWER CHANNEL: Enable auto answer on individual channels. The line groups are displayed for better overview.
- ANSWER CALL ON AUDIO LINE: Define the audio line which is set on the telephone channel when a call is answered automatically.
 - ASSOCIATED LINE GROUP: Define an individual audio line for each line group in the table at the bottom of the page.
 - HOLD (ASSOCIATED STUDIO): Use the Hold signal of the first studio the channel can be found in.
 - HOLD (NEWS DESK CLIENT): Use the Hold signal of the News Desk Client as configured on the Clients Audio Assignment page.

- HOLD (STUDIO N): Use the Hold signal of a specific studio.
- OFF CONFERENCE N: Use one of the Off Conference audio lines.
- ON AIR (ASSOCIATED STUDIO): Use the audio line of On-Air fader 1 of the first studio the channel can be found in.
- ON AIR N: Use a specific On-Air audio line.
- PHONERSET N PRETALK: Use a specific PhonerSet pretalk audio line.
- PRETALK N: Use a specific Pretalk audio line.
- AUTO ANSWER DELAY: Define how long a call must ring before the system accepts the call. During that time the call can be answered manually by the user.

Intro / Data Privacy Query (1)

Configuration		^
Local	ro / Data Privacy Query	
MAGIC THipPro ACip3 1		
Operation Settings	Channels	
Clients / Security	Channelladau II a la	
Studio Definition		
Database	Line Groups	
News Desk Pool		
Mode & Audio Line	Activation	
Internal HOLD Signals	1. 1. 1.	
Studio Audio Assignment		
Clients Audio Assignment	Name	Length PC Path of Dynamic DPQ Signals
PhonerSet Audio Assignmen		
Clients Restrictions	Announcement	8,94 sec Import Record/Play
Signal Processing	A	2 CE use Insent Descrit/Play
- Line Labels	Agree Message	
Studio Settings	Disagree Message	4.62 sec Import Record/Play
- Auto Answer		
Intro / Data Privacy Query	Intro mode (without data privacu proce	essina)
Misht Canvisa		
DTME	Auto answer incoming calls	
Actions	Always start Data Privacy Query (Ever	n when caller has previously agreed query)
Telephone Client Application	Audio line after agreement:	HOLD (Associated Studio)
Ember + Consumer Extension	Number of Announcements:	4 ~
	Pause time after announcement:	10 seconds v
	Drop line in case of disagreement	
General	Activate DTME Confirmation	
Line Interface		
Caller Line Grouping	DTMF code to agree:	1 ✓ Activate Agree Message
VoIP (LAN/SIP)	DTMF code to disagree:	0 V Activate Disagree Message
Collaboration Services		
Audio Interface		
PRETALK Streaming		
I I I → AES67 V		
Client ID: 3 Studio: 1		OK Abbrechen Apply Now



Intro / Data Privacy Query (2)

- Define how messages to callers are automatically played back before the call is signalled in the PC software on the INTRO / DATA PRIVACY QUERY page.
- The data protection regulations raised the demand for mechanisms to inform callers about how their data is used and to obtain their consent to the use of the data.
- When this feature is activated, incoming calls are answered automatically by the MAGIC THipPro.
- The caller's data (phone number, name if available, etc.) is displayed on the line.
- The HOLD button shows a symbol which message is currently playing. The other audio line buttons are deactivated. Press the HOLD button to stop the message and accept the call right away.

- After the Intro / Data privacy query process is done all audio line buttons are blinking yellow. The caller hears the configured Hold signal.
- If a caller disagrees to consent by pressing a key on his or her phone the system can hang up automatically.
- The caller's decision is stored in the phone book database to
 - prevent the callers from hearing the announcement the next time they call.
 - be able to delete the caller's records via an SQL script manually or via the windows scheduler. (Find an example in the installation directory of the MAGIC Screener software under .\SQL User Script.



Intro / Data Privacy Query (3)

- Several scenarios are possible e.g.:
 - Intro only: The system plays the intro and then signals the incoming call. No decision is stored.
 - Wait for consent: The system plays the intro and advises the callers to hang up if they do not agree. The data privacy field of the caller's phone book database record is set to "agreed" if the caller stays on the line.
 - Query consent: The system plays the intro which advises the callers to press a button on their phone if they agree or press a different button if they disagree. The decision is stored in the data privacy field of the caller's phone book database record.
- ACTIVATION: This feature can only be activated or deactivated for all lines of a line group.
- MESSAGES: Three different messages can be stored on the system:
 - ANNOUNCEMENT: The message that a caller hears after the MAGIC THipPro has answered the call.

- AGREE MESSAGE: The message that a caller hears before the call is signalled in the PC software.
- DISAGREE MESSAGE: The message that a caller hears after they pressed the button that tells the system that they disagree.



Intro / Data Privacy Query (4)

- The message are configured in the table of DPQ signals:
 - NAME: The names are predefined an cannot be changed.
 - LENGTH: Length of the stored audio file in seconds.
 - IMPORT: You can import an audio file. Only the first 24 seconds of the audio file are imported. The import module supports WAVE and MP3 audio files. They are automatically converted to a mono file with 16 kHz sampling frequency.
 - RECORD/PLAY: Opens a window to record, play and delete a message file. (See next page for details.)
 - PC PATH OF DYNAMIC DPQ SIGNALS: Enter the path of a DPQ message file stored on the PC or a network drive. The PC software then imports the file. The PC software on the PC which serves as master checks if the file has changed once per minute and automatically updates the DPQ message if necessary.
 - Note: A path can only be entered if a static DPQ

message is already recorded or imported. This file serves as a fallback if there is a problem with importing the file from the specified path.



Intro / Data Privacy Query (5)

Announcement Recording			×			
Announcement						
Name:	Announcement					
Signal duration:	9.11 sec	9.11 sec				
Record source:	AES/EBU 1 Left \sim					
	max.	24 sec				
Announcement recording		Test recorded Announcement				
	Save					
	Delete File	Close				



Intro / Data Privacy Query (6)

- Use the RECORD/PLAY button on the INTRO / DATA PRIVACY QUERY page to open the DPQ MESSAGE RECORDING window.
- NAME: The names are predefined an cannot be changed.
- SIGNAL DURATION: Length of the currently stored DPQ message file.
- RECORD SOURCE: Select an audio interface of the MAGIC THipPro. You can choose from:
 - All Analogue Audio interfaces
 - All AES/EBU channels
 - All AES67 channels
 - All DANTE channels
- PROGRESS BAR: Shows the length of the DPQ message being recorded.
- MESSAGE RECORDING: Control the recording of a

DPQ message:

- LEVEL METER: Shows the level of the audio signal on the selected Record Source.
- RECORD BUTTON: Starts recording.
- STOP BUTTON: Stops recording
- SAVE: Stores the file on the MAGIC THipPro.
- TEST RECORDED DPQ message
 - LEVEL METER: Level of the recording being played back.
 - PLAY BUTTON: Playback of the recording.
- DELETE FILE: Deletes the DPQ message file from the MAGIC THipPro.

Intro / Data Privacy Query (7)

- INTRO MODE (WITHOUT DATA PRIVACY PROCESSING): The MAGIC THipPro accepts the calls automatically and plays the Announcement message. The data privacy entry in the phone book database is not set.
- AUTO ANSWER INCOMING CALLS: The system automatically accepts incoming calls and plays the Announcement.
- ALWAYS START DATA PRIVACY QUERY (EVEN WHEN CALLER HAS PREVIOUSLY AGREED QUERY): The system ignores the data privacy entry in the phone book database when a call comes in and plays the announcement message every time.
- AUDIO LINE AFTER INTRO: Define the Hold signal the caller hears after the Intro / Data Privacy Query process is done.
 - HOLD (STUDIO N): The Hold signal of a studio.

- HOLD (NEWS DESK CLIENT): The Hold signal configured for the News Desk Clients on the Clients Audio Assignment configuration page.
- HOLD (ASSOCIATED STUDIO): The Hold signal of the first studio to which the respective telephone line is assigned to.
- NUMBER OF ANNOUNCEMENTS: Define how many times the announcement should be repeated. (1 – 4)
- PAUSE TIME AFTER ANNOUNCEMENT: Define how long the pause after each announcement message should be. (0 – 10 seconds)
- DROP LINE IN CASE OF DISAGREEMENT: Enable if the MAGIC THipPro should disconnect the line when the disagree-DTMF code was received.

Intro / Data Privacy Query (8)

- ACTIVATE DTMF CONFIRMATION: The MAGIC THipPro can detect which button the caller pressed on the phone by analysing the received DTMF tones. Enable this function to use the DTMF codes to update the data privacy field of the caller's phone book database record automatically.
 - DTMF CODE TO AGREE: Define the DTMF code that the callers enter when they agree to the storing of their data.
 - DTMF CODE TO AGREE: Define the DTMF code that the callers enter when they agree to the storing of their data.
- ACTIVATE AGREE MESSAGE: Enable to play the agree message. The agree message is played when:
 - The caller stays on the line after the Pause time after announcement.
 - The caller sent the DTMF code to agree and DTMF CONFIRMATION is activated.

- ACTIVATE DISAGREE MESSAGE: Enable to play the disagree message. The Disagree message is played when:
 - the caller sent the DTMF code to disagree and DTMF CONFIRMATION is activated.



Answering Machine (1)

Local	Answering Machine				
MAGIC THipPro ACip3 1	O 11111				
Operation Settings	LALLIN VIP CA	LL IN VIP PROD PROD	NEWSDESKS Line Group 8 Line Group 9 L	ine Group 10 Unassigned	
Clients / Security	E				
Studio Definition	Function.	Auto Message and DRUP	~		
Database		Parameters	Values		
News Desk Pool		Becorded HOLD Signal	Internal HOLD signal 2 (Announcement)	-	
Mode & Audio Line		Pause (see)	2		_
Studia Audia Assimum ant		Pause (sec)	3		
Clients Audio Assignment		nepetitions	2		
PhonerSet Audio Assignment					
Clients Restrictions					
- Line Labels					
Studio Settings		Activation Button Label:	АМ		
Auto Answer		Active Answ Machine Mess	age: * Answering Machine *	\neg	
Intro / Data Privacy Query		Active Anism. Machine Mess			
- Answering Machine					
Night Service					
DTMF					
Actions					
⊞ GPIO					
Ember + Consumer Extensior					
System Settings					
General					
Collegating Commission					
VoID (LANI/SID)					
Audio Interface					
PRETALK Streaming					
AES67					
LAN Interface					
VLAN					

Answering Machine (2)

- Configure the Answering Machine mode and parameters on the ANSWERING MACHINE page.
- The answering machine is configured and activated per line group.
- Activate the answering machine via the line group menu of the PC software's menu bar.
- Configure the answering machine for each line group individually on the respective tab.
- FUNCTION: Select a mode:
 - NO ANSWERING MACHINE OPERATION.
 - AUTO MESSAGE AND DROP: Every call on any line of the line group is automatically accepted. The MAGIC THipPro plays a message and disconnects the call thereafter.
 - RECORD CALLER: The MAGIC THipPro accepts incoming calls automatically. The system plays a message and streams the caller's audio signal to a PC via Pretalk Streaming. The PC records the caller's message.

- AUTO MESSAGE AND DROP parameters:
 - RECORDED HOLD SIGNAL: Select a recorded Hold signal from the list. Configure the Hold signal files on the INTERNAL HOLD SIGNALS configuration page.
 - PAUSE (sec): Define the pause after each repetition of the Hold signal.
 - REPETITIONS: Define how many times the Hold signal is played before the MAGIC THipPro hangs up.
 - ACTIVATION BUTTON LABEL: Define the label of the button which is used to activate the answering machine. The button is displayed in the respective line group menu of the PC software's menu bar.
 - ACTIVE ANSW. MACHINE MESSAGE: Define the message that is displayed on those telephone lines in the PC software where the answering machine is active.



Answering Machine (3)

Configuration								
Local	Answering M	achine						
MAGIC THipPro ACip3 1								
🖃 Operation Settings 📃 🔺	CALL IN A	/IP CAL	LIN VIP PRO	DD PROD NEWSD	SKS Line Group 8 Line Group 9 Line	e Group 10 Unassigned		
Clients / Security								
Studio Definition	Functio	on:	Record Caller		~			
Database			Parameters		Values			
News Desk Pool								
Mode & Audio Line			Recording Ulie	ent	Client 1: 51-Presenter 1		•	
Internal HOLD Signals			Max. Recordin	ng Time (sec)	240		•	
Studio Audio Assignment			Enable Beep a	after Greeting Message	Yes		-	
Clients Audio Assignment			Greeting Mess	age	Announcement.wav		- 📥	
PhonerSet Audio Assignmen			Recording Tim	neout Message	Thank you.wav		- 📥	
Clients Restrictions			Show Recordi	ngs on Clients	S1-Presenter 1, S1-Presenter 2, S1-Scree	ener, Technician		
Signal Processing			Recordings Ba	ase Folder	The recordings base path must be define	ed at "Studio Settings" page		
Line Labels				A - 6 - 6	h- AC\\/			
Auto Angular			Activation Butto	n Label: ACtiva	ite ASW	1		
Intro / Data Brinacy Query			Active Answ. Ma	achine Message:	Answering Machine active!			
Answering Machine								
- Night Service								
DTME								
Actions								
Ember + Consumer Extensior								
System Settings								
General								
Line Interface								
Caller Line Grouping								
VoIP (LAN/SIP)								
Audio Interface								
PRETALK Streaming								
AES67								
LAN Interface								
VLAN								
DHD Audio Matrix 🗸 🗸								
lient ID: 9 Studio: 2						OK Can	cel Apply No	N

Answering Machine (4)

• RECORD CALLER parameters:

 RECORDING CLIENT: Select a PC client. It plays the greeting and timeout messages and does the recording of the caller.

There must be a pretalk stream assigned to the client which is used for audio transmission. You may assign a fixed pretalk stream or a dynamic pretalk stream. The pretalk stream of this client is reserved for recording of callers when the answering machine is active. The user can not talk to callers on other lines using pretalk.

- MAX. RECORDING TIME (SEC): Set the timeout after which the answering machine will hang up automatically. Select 0 to only play the message without recording a message.
- ENABLE BEEP AFTER GREETING MESSAGE: The answering machine will play a beep tone after the greeting message to indicate that it is ready to record a message.

 GREETING MESSAGE: Click on the input field to select a greeting message. The message is played directly after the system accepted the call. The message files must be stored in a specific folder to show up here. The path is determined by the name of the LINE GROUP and the RECORDINGS BASE FOLDER:

<Recordings Base Folder>\<Line Group Folder>\Messages.

The folder is automatically created when importing a message via the icon on the right. The file format is WAV, 16 Bit, 48 kHz, Mono.

 RECORDING TIMEOUT MESSAGE: Click on the input field to select a timeout message. The message is played after the max. recording time exceeded, before the system hangs up.

The message files must be stored in a specific folder to show up here. The path is determined by the name of the LINE GROUP and the RECORDINGS BASE FOLDER:

<Recordings Base Folder>\<Line Group Folder>\Messages.

The folder is automatically created when importing a message via the icon on the right.

The file format is WAV, 16 Bit, 48 kHz, Mono.

Answering Machine (5)

- RECORDINGS BASE FOLDER: The studio recording folder is used as the recording base folder. Configure the folder under STUDIO SETTINGS – PRETALK STREAMING RECORDING FOLDER.
- ACTIVATION BUTTON LABEL: Define the label of the button which is used to activate the answering machine. The button is displayed in the respective line group menu of the PC software's menu bar.
- ACTIVE ANSW. MACHINE MESSAGE: Define the message that is displayed on those telephone lines in the PC software where the answering machine is active.
- It is recommended to delete recordings that are no longer needed, as the PC software monitors the folder to display all available recordings in the RECORDINGS list. A large folder slows down the software significantly.



Night Service (1)

Local	Night Service					
MAGIC THipPro ACip3 1						
Operation Settings	CALL IN VIP (Call in vip pr	ROD PROD NEWSDESKS I	ine Group 8	Line Group 9 Line Group 10 U	nassigned
Clients / Security						
Studio Definition	Function:	Transfer incor	ning call	\sim		
Database		#	Phone Numbers		Dhone Number Aliza	
News Desk Pool		#		-	Priorie Nulliber Allas	
Mode & Audio Line		1*	315	ß	Studio B	2
Internal HOLD Signals		2	320	ß	News Room	ľ
- Studio Audio Assignment		3	325	ß	Hotline	ß
 Clients Audio Assignment 		4		Ø		Ø
PhonerSet Audio Assignmen		5		Ø	•	C
Clients Restrictions		6		Ø		ß
Signal Processing						
Line Labels						
Studio Settings		Activation Butt	on Label: Night Service			
Auto Answer		Active Night S	ervice Message: 🔰 All calls will I	be routed to {r	name} ({number})	
Auto Answer Intro / Data Privacy Query		Active Night S	ervice Message: All calls will	be routed to {r	name} ({number}) Variables	Selected number
Auto Answer Intro / Data Privacy Query Answering Machine		Active Night S	ervice Message: All calls will	be routed to {r	name} ({number}) Variables {number}	Selected number for call transfer
Auto Answer Intro / Data Privacy Query Answering Machine <mark>Night Service</mark>		Active Night S	ervice Message: All calls will	be routed to {r	name} ({number}) Variables {number} {number} {number}	Selected number for call transfer Alias of
Auto Answer Intro / Data Privacy Query Answering Machine <mark>Night Service</mark> DTMF		Active Night S	ervice Message: All calls will	be routed to {r	name} ({number}) Variables {number} {number} {number} {number}	Selected number for call transfer Alias of selected number
Auto Answer Intro / Data Privacy Query Answering Machine <mark>Night Service</mark> DTMF Actions		Active Night S * MAGIC THiol	Pro Screener uses only # 1 on act	be routed to {r	name) ({number}) Variables {number} {number} {name}	Selected number for call transfer Alias of selected number
Auto Answer		Active Night S * MAGIC THip	Pro Screener uses only #1 on act	be routed to {r 	name) ({number}) Variables {number}	Selected number for call transfer Alias of selected number
Auto Answer Intro / Data Privacy Query Answering Machine Night Service DTMF Actions GPIO Ember + Consumer Extensior		Active Night S * MAGIC THip	Pro Screener uses only # 1 on act	be routed to {r 	name) ({number}) Variables { {number} {number} {number} {name}	Selected number for call transfer Alias of selected number
		Active Night S * MAGIC THipl	Pro Screener uses only # 1 on act	be routed to {r	name) ({number}) {name} (number} {name}	Selected number for call transfer Alias of selected number
Auto Answer Intro / Data Privacy Query Answering Machine Night Service DTMF Actions GPIO Ember + Consumer Extensior System Settings General Line Interface		Active Night S * MAGIC THipl	Pro Screener uses only # 1 on act	ivation	name) ({number}) {name} (number} {name}	Selected number for call transfer Alias of selected number
- Auto Answer - Intro / Data Privacy Query - Answering Machine - Night Service - DTMF - Actions - GPIO - Ember + Consumer Extension - System Settings - General - Line Interface - Caller Line Grouping		Active Night S * MAGIC THip	Pro Screener uses only # 1 on act	ivation	name) ({number}) {name} {number} {number} {name}	Selected number for call transfer Alias of selected number
— Auto Answer — Intro / Data Privacy Query — Answering Machine — Night Service — DTMF — Actions ⊕- GPIO — Ember + Consumer Extensior • System Settings — General — Line Interface — Caller Line Grouping VolP (I AN/SIP)		Active Night S * MAGIC THip	Pro Screener uses only # 1 on act	ivation	name} ({number}) Variables {number} {number}	Selected number for call transfer Alias of selected number
 Auto Answer Intro / Data Privacy Query Answering Machine Night Service DTMF Actions GPIO Ember + Consumer Extension System Settings General Line Interface Caller Line Grouping VolP (LAN/SIP) Autio Interface 		Active Night S * MAGIC THip	Pro Screener uses only # 1 on act	ivation	name} ({number}) { Variables { (number}) { (number}	Selected number for call transfer Alias of selected number
Auto Answer Intro / Data Privacy Query Answering Machine Night Service DTMF Actions GPIO Ember + Consumer Extensior System Settings General Line Interface Caller Line Grouping VoIP (LAN/SIP) Audio Interface PRETALK Streaming		Active Night S * MAGIC THip	Pro Screener uses only # 1 on act	ivation	name} ({number}) { Variables { (number}) { (number}	Selected number for call transfer Alias of selected number
 Auto Answer Intro / Data Privacy Query Answering Machine Night Service DTMF Actions GPIO Ember + Consumer Extension System Settings General Line Interface Caller Line Grouping VoIP (LAN/SIP) Audio Interface PRETALK Streaming AFS67 		Active Night S * MAGIC THip	Pro Screener uses only #1 on act	ivation	name} ({number}) { Variables { (number}) { (number}	Selected number for call transfer Alias of selected number
 Auto Answer Intro / Data Privacy Query Answering Machine Night Service DTMF Actions GPIO Ember + Consumer Extension System Settings General Line Interface Caller Line Grouping VoIP (LAN/SIP) Audio Interface PRETALK Streaming AES67 LAN Interface 		Active Night S * MAGIC THip	Pro Screener uses only #1 on act	ivation	name} ({number}) { Variables { (number}) { (number}	Selected number for call transfer Alias of selected number
 Auto Answer Intro / Data Privacy Query Answering Machine Night Service DTMF Actions GPIO Ember + Consumer Extension System Settings General Line Interface Caller Line Grouping VoIP (LAN/SIP) Audio Interface PRETALK Streaming AES67 LAN Interface VI AN 		Active Night S * MAGIC THip	Pro Screener uses only # 1 on act	ivation	name} ({number}) { Variables { number} { number} { name}	Selected number for call transfer Alias of selected number

Night Service (2)

- Configure the Night Service mode and parameters on the NIGHT SERVICE page.
- When night service is activated, all incoming calls are forwarded to another telephone.
- Up to six different call forwarding destinations can be defined.
- The night service mode is configured and activated per line group.
- Activate the night service via the line group menu of the PC software's menu bar. If several phone numbers are configured the user can chose a number.
- When the night service is activated, the respective telephone lines on the main panel of the PC software are disabled, and a message is displayed.

- Configure the night service for each line group individually on the respective tab.
- FUNCTION: Select a mode:
 - NO NIGHT SERVICE OPERATION.
 - TRANSFER INCOMING CALL: Every incoming call is transferred using ECT (Call forwarding by PBX or provider, which is widely supported)
 - CALL FORWARDING INCOMING CALL: Every incoming call is transferred using the call forwarding lines of the MAGIC THipPro. (There must be CALL FORWARDING LINES defined on the LINE INTERFACE configuration page)
 - CALL FORWARDING PROVIDER: The MAGIC THipPro sends a dial code to the provider when Night Service is activated. The command instructs the network to route the call to the desired number.
 When the night service is deactivated the MAGIC THipPro sends another dial code to the provider to deactivate the call forwarding.



Night Service (3)

TRANSFER INCOMING CALL / CALL FORWARDING INCOMING CALL parameters:

- #: Six different call forwarding destinations can be defined. Only the first destination can be used by the Screener Client PC software.
- PHONE NUMBERS: Define the call forwarding destinations.
- PHONE NUMBER ALIAS: Enter a short text explaining the destination. It will be presented to the user when selecting a destination and can be used in the night service message.
- GENERAL parameters:
 - ACTIVATION BUTTON LABEL: Define the label of the button in the line group menu of the PC software's menu bar.
 - ACTIVE NIGHT SERVICE MESSAGE: Define the message that is displayed on those telephone lines in the PC software where the night service is active. You may enter any text. You may mix text with the

supported variables:

- {number}: The destination phone number.
- {name}: The phone number alias of the destination.



Night Service (4)

Local	Night Service							
MAGIC THipPro ACip3 1								
Operation Settings	CALL IN VIP	CALL IN VIP	PROD PROD N	EWSDESKS	Line Group 8 Line Gr	roup 9	Line Group 10 Unas	signed
Clients / Security								
Studio Definition	Function:	Call Forwar	ding (Provider)		\sim			
Database		#	Activation Cod		Depativation Code		Eurotion Aliza	
News Desk Pool		#	Activation Coo	•		_	Punction Allas	-
Mode & Audio Line		1*	*21*315#	ß	#21#	ß	Studio B	ß
Internal HOLD Signals		2	*21*320#	ß	#21#	Ø	News Room	I
Studio Audio Assignment		3	*21*325#	Ø	#21#	Ø	Hotline	ľ
Clients Audio Assignment		4		Ø		Ø		I
PhonerSet Audio Assignmen								
Clients Restrictions								
Signal Processing								
- Line Labels								
Studio Settings		Activation B	utton Label:	Night Service	•			
Auto Answer		Active Nigh	Service Message:	All calls wil	l be routed to {name} ({	number) Variables	
Intro / Data Privacy Query							{number}	Selected number
Misht Conving								TOF Call transfer
DTMC							{name}	Alias of
Actions								selected number
GPIO		* MAGIC TH	lipPro Screener uses	only #1 on a	ctivation			
System Settings								
General								
- Line Interface								
- Line Interface - Caller Line Grouping								
Caller Line Grouping VolP (LAN/SIP)								
Caller Line Grouping Caller Line Grouping VoIP (LAN/SIP) Audio Interface								
Line Interface Caller Line Grouping VoIP (LAN/SIP) Audio Interface PRETALK Streaming								
Line Interface Caller Line Grouping VoIP (LAN/SIP) Audio Interface PRETALK Streaming AES67								
Caller Line Grouping Caller Line Grouping VoIP (LAN/SIP) Audio Interface PRETALK Streaming AES67 LAN Interface								
Ceneral Line Interface VoIP (LAN/SIP) Audio Interface PRETALK Streaming AES67 LAN Interface VLAN								

Night Service (5)

• CALL FORWARDING PROVIDER parameters:

- #: Four different dial codes can be defined. Only the first dial code can be used by the Screener Client PC software.
- ACTIVATION CODE: Define the dial code to activate the call forwarding. The dial code must include the destination phone number.
- DEACTIVATION CODE: Define the dial code to deactivate the call forwarding.
- FUNCTION ALIAS: Enter a short text explaining the destination. It will be presented to the user when selecting a destination and can be used in the night service message.

DTMF (1)

Configuration		×
Local	DTMF	
MAGIC THipPro ACip3 1 	DTMF Mode Studio 1 Studio 2 Prod 1 Prod 2 Studio 5 News Desk Event Mode V	
Mode & Audio Line Internal HOLD Signals	DTMF Event Labels DTMF Digits	
	1 GOAL	
PhonerSet Audio Assignmen	2 PENALTY	
Clients Restrictions	3 RED CARD	
Line Labels	4 YELLOW CARD	
Studio Settings	5	
Auto Answer	6	
Intro / Data Privacy Query		
DTMF		
Actions		
	0	
Ember + Consumer Extension	x	
General	#	
VoIP (LAN/SIP)		
Audio Interface		
PRETALK Streaming		
AESO/		
VIAN		_
- DHD Audio Matrix		
Client ID: 9 Studio: 2	OK Cancel Apply Now	



DTMF (2)

- Configure how the MAGIC THipPro LAN Client PC software handles DTMF tones the system receives on the DTMF page.
- DTMF (Dual-tone multi-frequency) tones are sent when a caller presses a button (0-9, *,#) on his or her phone. The information is transmitted as a short audio signal which can be detected by the MAGIC THipPro.
- The MAGIC THipPro can also detect signals transmitted via RFC2833 in VoIP mode.
- The DTMF mode is configured per line group.
- Configure the DTMF mode for each studio individually on the respective tab.
- When DTMF reception is active the RESET DTMF button is displayed in the LAN Client PC software. It clears all DTMF tone displays.
- Select a mode:
 - OFF: Received DTMF tones are not displayed.

- STANDARD: Every received DTMF tone is displayed on the telephone line it was received as a singled digit until the next DTMF tone is received or the line is disconnected.
- GAME SHOW: On each line only the first received DTMF tone is displayed as a single digit. The first received DTMF tone of all lines is displayed on a green background to indicate who pressed a button first. The DTMF display is reset when the call is disconnected or RESET DTMF is pressed.
- EVENT MODE: In this mode a text can be assigned to each DTMF code. When a DTMF tone is received the LAN Client PC software displays the text instead of the digit. The text is displayed for five seconds. This comes handy for example when there are reporters in different sports arenas. The operator in the studio has them all on Hold. The reporters signal an event to the studio via DTMF which is displayed as text.

Actions (1)

Local	Actions	;			
MAGIC THipPro ACip3 1					
Operation Settings	##	Name	Function	Clients	
Clients / Security	1	ASW Recording	HOLD signal recording:Internal HOLD signal 2 (Announcement)	S1-Presenter 1	
Studio Definition	2	Preset Standard	Load Preset:AZ-TEST	Technician	
Database	3	NEXT	Set NEXT line at Line Group:Line Group CALL IN:From:Incomin	S1-Presenter 1, S1-Presenter 2	
News Desk Pool	4	ASM VIP	Toggle Answering Machine:Line Group CALL IN : Answering M	S1-Screener	
Internal HOLD Signals	5	Audio Editor	Execute external application:Show Command 4:Command "C:\	Technician	
Studio Audio Assignment	6	GPO	Set GP0: Ember+ Output 17: PCAction	S1-Presenter 1, S1-Presenter 2	
Clients Audio Assignment	7	Action 7			
PhonerSet Audio Assignmen	8	Action 8			
Clients Restrictions	9	Action 9	·		
Signal Processing	10	Action 10	•		
Line Labels	11	Action 11			
Studio Settings	12	Action 12	•		
Auto Answer	13	Action 13			
Intro / Data Privacy Query	14	Action 14			
- Answering Machine	15	Action 15			
DTME	16	Action 16			
	17	Action 17			
GPIO	18	Action 18			
TTL / Relay	19	Action 19			
⊟ Ember+	20	Action 20	-		
Input	20	Action 20			
Output	21	Action 22	· ·		
Consumer Functions	22	Action 22	•		
Ember+ Consumer Extensior	23	Action 23	•		
stem Settings	24	Action 24	•		
General	25	Action 20	•		
Line Interface	< ∠	Action Zh	•		
VolD (LAN/SID)					
Audio Interface					

Actions (2)

- Assign functions to additional buttons on the menu bar of the PC software on the ACTIONS page.
- Up to 30 actions can be defined.
- Specify which clients display the additional buttons.
- The NEXT action button is always displayed separately on the menu bar. All other action buttons can be displayed under a general ACTIONS button.
- An overview of the specified actions is displayed in a table:
 - NAME: A name of your choice.
 - FUNCTION: Summary of the specified action.
 - CLIENTS: Lists all clients which display a button to execute the action.

Actions (3)

Action # 1		×
Name: Function Code:	ASW Recording HOLD signal recording	
Signal: Audio Interface:	Internal HOLD signal 2 (Announcement) ~ IP Audio Stream 1 ~	
Available for:	Client Client 1: 51-Presenter 1 Client 2: 51-Presenter 2 Client 3: 51-Screener Client 4: 52-Presenter 1 Client 5: 52-Presenter 2 Client 6: 52-Screener Client 7: Prod 1 Client 8: Prod 2 Client 9: Technician	
	OK Cancel	



Actions (4)

- Double click a line on the ACTIONS configuration page to open a window to add / edit / delete an action.
- NAME: Enter a name of your choice.
- FUNCTION CODE: Select a function from the dropdown list. Find a detailed description of all function codes on the following pages.
- PARAMETERS: The available parameters depend on the selected function code. Find a detailed description of all parameters on the following pages.
- AVAILABLE FOR: Select the clients where the action should be available.

Actions (5)

Function Code	Parameter		Description
-	-		No function selected. Set this function code to delete a function.
Load Preset	Preset:	#: <preset name="" preset="" super=""></preset>	Loads the Preset (Operation Settings) with the name #. Loads the Super Preset (Operation & System Settings) with the name #.
HOLD signal recording	Signal: Audio Interface:	IH: Internal HOLD Signal 116 AI: Audio Interface	Opens a window for recording the internal HOLD Signal IH via the audio interface AI.
Set NEXT line at Line Group	Line Group: From: To: Post State:	 GR: Configured Line Group F: Incoming Call, Any HOLD, Any HOLD READY, Any HOLD READY, Any HOLD WAS ON AIR T: My PRETALK, My ON AIR PO: My HOLD, My HOLD READY, My PRETALK, DROP line 	 Allows for automatically bringing the next caller ON AIR by only pressing the action button. The action button only affects lines of the line group GR. The action button only affects calls which are in state F. If a call meets these conditions, clicking the action button will put the call in the state T. If there was a call-in state T before, this call is put into post state PO. "My" indicates that the specified audio line of the client which executes the action is used.

Actions (6)

Function Code	Parameter		Description
Execute External Application	Show Command: Command:	 SC: Hide Window, Show Window (and set active), Show Window, Show Window minimized C: Path and command line parameters 	Runs an external application given in C and sets the window mode of the application as configured in SC.
Set GPO	GPO:	G: General Purpose Output (TTL, Relay, DHD SetLogic, Ember+)	Toggles the output specified in G. An output must be configured to SET OUTPUT BY ACTION (PC) on the respective GPIO configuration page to be available here.
Toggle Answering Machine	Line Group: Mode:	GR: Configured Line GroupM: Configured Answering MachineMode	Switches the configured answering machine mode M for the line group GR on and off.

GPIO (1)

Configuration				>
Local	TTL / Relay			
MAGIC THipPro ACip3 1				
Clients Restrictions	Pin	Dir.	Function 1 (Positive Edge)	Function 2 (Negative Edge)
Signal Processing	TTL 1 (Pin 1)	In	Accept incoming call:VoIP Line 1:Audio Line On Air 1	Drop:VoIP Line 1
Line Labels	TTL 2 (Pin 2)	In		
Studio Settings	TTL 3 (Pin 3)	In		
- Auto Answer	TTL 4 (Pin 4)	In		
Answering Machine	TTL 5 (Pin 5)	In		
- Night Service	TTL 6 (Pin 6)	In		
DTMF	TTL 7 (Pin 7)	In		
- Actions	TTL 8 (Pin 8)	In		
	Relay 1 (Pins 14->15) NO	Out	ON AIR:Any VolP Line	
TTL / Relay	Relay 2 (Pins 17->18) NO	Out	Always Open	
DHD	Relay 3 (Pins 19->20) NO	Out	Always Open	
Set Logic	Relay 4 (Pins 21->9) NO	Out	Always Open	
⊡ Ember+	Relay 5 (Pins 22->10) NO	Out	Always Open	
Output	Relay 6 (Pins 23->11) NO	Out	Always Open	
Consumer Functions	Relay 7 (Pins 24->12) NO	Out	Always Open	
	Relay 8 (Pins 25->13) NO	Out	Always Open	
🚊 System Settings				
General				
Line Interface				
Caller Line Grouping				
Audio Interface				
PRETALK Streaming				
AES67				
LAN Interface				
NTP				
VLAN	<			>
DHD Audio Matrix				
Client ID: 1 Studio: 1				OK Abbrechen Apply Now



GPIO (2)

- Configure GPIOs (General Purpose Input / Output) on the GPIO pages.
- The MAGIC THipPro provides 8 hardware TTLs through its GPIO connector at the back.
 - Each TTL GPIO can be configured individually as input or output.
 - Each pin has an internal pull up resistor. An open pin has therefore the logic state "high".
 - Use for example an external relay to short the pin to device ground which is also available through the GPIO connector.
 - In the "high" position, a TTL output supplies a voltage of 3.3 V and a maximum current of 10 mA.
- The MAGIC THipPro provides 8 hardware Relays through its GPIO connector at the back.
 - A relay can be loaded with maximum 200 mA and 48 V.
 - Relays are normally open (NO)

- Double-click a list entry to configure the TTL or Relay function.
 - Find the details on the available functions in the Signalling and Control with EmBER+ document available in the download section of our website.
- If DHD AUDIO MATRIX is enabled, up to 96 GPIOs can be configured under GPIO – DHD – SET LOGIC.
 - Each GPIO can be configured individually as input or output.
 - Find the details on the available functions in the Signalling and Control with DHD SetLogic document available in the download section of our website.

GPIO (3)

- If EMBER+ PROVIDER is enabled, up to 96 inputs and 96 outputs can be configured under GPIO – EMBER+ – INPUT/OUTPUT.
 - Find the details on the available functions in the Signalling and Control with EmBER+ document available in the download section of our website.
- If EMBER+ CONSUMER is enabled, up to 20 functions can be configured for each consumer under GPIO – EMBER+ – CONSUMER FUNCTIONS.
 - Find the details on the available functions in the Signalling and Control with EmBER+ document available in the download section of our website.



Ember+ Consumer Extension (1)

Configuration	X
Local	Ember+ Consumer Extension
MAGIC THipPro ACip3 1	
	WP1 Workplace 2 Workplace 3 Workplace 4 Workplace 5 Workplace 6 Workplace 7 Workplace 8 Workplace 9 Workplace 10
Line Labels	Name of Markeland
Studio Settings	
Auto Answer	DHD Core: 1 (172.20.75.6:2008) V Use Consumer connected to: Provider 1: 172.20.75.6 V
Intro / Data Privacy Query	Trigger Logic ID to open NumberPad: 336 Status ID of NumberPad (VirtualKey): 337
Answering Machine	Ember+ Global Label ID for Dial Number: GlobalLabel 5: Dial Number ••• m
DTME	
Actions	Channels Index:
Telephone Client Application	Line Groups: CALL IN MP CALL IN MP PR PR NEWSDESKS
	Assigned Channels:
Ember + Consumer Extension	
Ember + Dial Pad Extension	Line 1
🖕 System Settings	Audio Line Assignment
General	PRETALK not used
- Line Interface	HOLD not used
Valler Line Grouping	
Collaboration Server	
Audio Interface	UN AIR Fader 2 not used
	GPI Functions
-AES67	1-Button (CALL/DROP/etc.) 365
LAN Interface	Set PRETALK 0 🖉
NTP	Set HOLD 0 🕜
VLAN	Set ON AIR Fader 1 0 🕜
DHD Audio Matrix	Set ON AIR Fader 2 0 🕑
	DROP line 367 🕑
ACconnect	Transfer Call 366 🕑
Stream Quality Measurement	Redial 397 🕑
SNMP	GPO Functions
System Login	332 📝
Class Dr. E. Charles 1	
Cilencito, o Studio; i	OK Abbrechen Apply Now

Ember+ Consumer Extension (2)

- The EMBER+ CONSUMER EXTENSION makes it easy to control telephone lines of the MAGIC THipPro from a DHD mixing console without using the PC software.
- The mixing console must act as Ember+ provider and support DHD SetLogic.
- Configure the workplaces on the EMBER+ CONSUMER EXTENSION configuration page.
 - Find the complete configuration guide with examples in the Ember+ Consumer Extension document available in the download section of our website.



Ember+ Dial Pad Extension (1)

Configuration			×				
Local	Ember + Dial Pad Extension						
MAGIC THipPro ACip3 1	- Ember+ Dial Pad to Client assignm	nment					
Signal Processing							
Studio Settings		Ember+ DialPad	×				
Auto Answer		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16					
Intro / Data Privacy Query Answering Machine	1 : S1-Presenter 1						
Night Service	2 : S1 Broconter 2						
	2.51-Fieseriter 2						
Telephone Client Application	3 : S1-Screener						
⊕ GPIO Ember+ Consumer Extension	4 : S2-Presenter 1						
Ember + Dial Pad Extension	5 : S2-Presenter 2						
General	6 : S2-Screener						
Line Interface							
	7 : Prod 1						
- Collaboration Server	8 : Prod 2						
PRETALK Streaming	9 : Technician						
AES67 LAN Interface	News Desk Client						
NTP							
PhonerSet / Remote Light							
ACconnect							
System Login		•					
×							
Client ID: 5 Studio: 1		OK Abbrechen Apply Now					



Ember+ Dial Pad Extension (2)

- Define which PC clients display the number entered on the respective Ember+ Dial Pad on the EMBER+ DIAL PAD EXTENSION configuration page.
- Up to 16 pre-defined Dial Pads can be provided by the MAGIC THipPro Ember+ Provider.
- The dial pads can be used by Lawo mixing consoles and tools to make calls.
- Find the dial pads in the Ember+ tree of the MAGIC THipPro under: AVT MAGIC THipPro > GPIOs > Dial Pad N
- Find the number entered via a dial pad in the Ember+ tree of the MAGIC THipPro under: AVT MAGIC THipPro > Operation > Dial Pad Numbers > Dial Pad Number N


Factory Settings

MAGIC THipPro MAGIC THipPro Pure



Set Factory Settings (1)

- MAGIC THipPro (and MAGIC ACip3) can be reset to factory settings via Front Display.
- The configuration of the device is reset.
- All files stored on the device are preserved.
- The configurations of all clients (LAN client, Screener, PhonerSet, ...) are preserved.
- If there is no password configured, the device can be reset via front display as shown on the right.
- To reset the THipPro via the front display, go to
 Menu > Presets > Opts > Load Factory Settings.





Set Factory Settings (2)

- If there is a password configured but the password is not known, the device can only be reset via the front display.
- To reset the THipPro via the front display, go to Login > Factory.





Set Factory Settings (3)

- The MAGIC THipPro can also be reset to factory settings via the LAN Client software.
- Go to Menu > Administration > Set Factory Settings.
- Two options are available:
 - LOAD FACTORY: The current configuration is reset to factory settings. All files stored on the MAGIC THipPro are preserved including presets, super presets, recorded hold signals, intro / data privacy query / answering machine messages, and the SIP logfile.
 - CLEAR ALL FILES: The current configuration is reset to factory settings. All files stored on the MAGIC THipPro are deleted including presets, super presets, recorded hold signals, intro / data privacy query / answering machine messages, and the SIP logfile.
- To also reset a connected ACip3, first reset the ACip3 via Menu > Magic ACip3 > Set Factory Settings.







MAGIC THipPro LAN Client

Local Settings

MAGIC THipPro MAGIC THipPro Pure



Client Settings (1)

Configuration		×
Configuration MAGIC THipPro ACip3 1 Local Client Settings Application Parameters Font Settings Chat Quick Dials PRETALK Streaming/Recording Social Media Settings Folder	Client Settings Location Client: Take it from Computer Access List Studio: Take it from system configuration Enable Master Client Ability Computer Name Alias: Use PRETALK: Take it from system configuration Caller Lines Time information shows time on current Audio line Add salutation: Never Call Forwarding 1st. default telephone number: ECT - Attended Call Transfer 2nd. default telephone number: ECT - Attended Call Transfer 2nd. default telephone number: ECT - Attended Call Transfer	Name: Desk
Client ID: 5 Studio: 1	OK Abbrechen	



Client Settings (2)

- Local settings control the look and the behaviour of the LAN Client PC software.
- They are stored on the PC.
- Find settings regarding the client ID, the presentation of caller lines and call forwarding on the CLIENT SETTINGS page.
- LOCATION:
 - CLIENT: Define how the client retrieves its client ID.
 - TAKE IT FROM COMPUTER ACCESS LIST (default): The PC software searches for its computer name in the CLIENTS / SECURITY list. It takes over the client ID assigned to the computer name.
 - TAKE IT FROM LOCAL SETTINGS: You must define the COMPUTER NAME ALIAS below. The PC software searches for the COMPUTER NAME ALIAS in the COMPUTER NAME / IP ADDRESS column of the CLIENTS / SECURITY list of the MAGIC THipPro configuration. It adopts the respective client ID. This is helpful when there are multiple PCs which have the same role. Define an individual Pretalk interface for the client with USE PRETALK.
 - CLIENT N: The PC software takes over a specific client ID of the CLIENTS / SECURITY list. This option is intended to

be used when checking how changes to the system configuration affect a specific client.

- NEWS DESK CLIENT: The PC software adopts the role of a news desk client. This option is intended to be used when checking how changes to the system configuration affect a specific client. Please note that a news desk client is not allowed to change the system configuration.
- ENABLE MASTER CLIENT ABILITY: Access to shared resources like the database or dynamic Hold files is managed by the master client. The master client is automatically determined by the system from all connected clients. If a client does not have access to shared resources, the master client ability should be deactivated for that client.
- COMPUTER NAME ALIAS: See LOCATION CLIENT TAKE IT FROM LOCAL SETTINGS on the left.
- USE PRETALK: Only available if CLIENT = TAKE IT FROM LOCAL SETTINGS.
 - TAKE IT FROM SYSTEM CONFIGURATION: The client uses the Pretalk interface defined on the CLIENTS AUDIO ASSIGNMENT configuration page.
 - PRETALK N: Select an individual Pretalk interface.

Client Settings (3)

CALLER LINES:

- TIME INFORMATION SHOWS TIME ON CURRENT AUDIO LINE: By default, a clock is displayed on each telephone line which indicates for how long the caller is already on the line. Enable this option to reset the clock each time the user changes the audio line (Pretalk, Hold, On Air).
- ADD SALUTATION: Select whether the gender of a caller is displayed on the info button of a telephone line. If activated the caller's name is preceded by Mr. or Mrs. If the gender is set in the phonebook database for that contact.
 - NEVER (default): No salutation is displayed.
 - ALWAYS: The salutation is always displayed.
 - WHEN FIRST NAME IS MISSING: The salutation is only displayed when the caller's first name is not stored in the phonebook database.

Client Settings (4)

 CALL FORWARDING: Define how call forwarding is presented on the LAN client. Only predefined modes are accessible to the user. Two modes (1st and 2nd) can be defined here. In general, the THipPro allows to talk to the call forwarding destination when the caller is in Pretalk. If the caller is in Hold or On Air, the call transfer is completed directly.

For each mode, three parameters can be set:

- TECHNICAL CALL TRANSFER MODE: Define how the call transfer is carried out technically by the system:
 - CALL FORWARDING OVER SEPARATE LINE: Select this mode if the THipPro should control the whole process. Internal telephone lines must be reserved for call forwarding on the LINE INTERFACE configuration page. The THipPro routes audio between the caller line and the call forwarding line. The telephone line is blocked until the caller has hung up.
 - ECT: Stands for Explicit Call Transfer. The call forwarding is done by the PBX or the provider. The THipPro informs the PBX or the provider about the call forwarding destination. When the call transfer is completed the caller line is free for the next call.

Three ECT modes are available:

- ATTENDED CALL TRANSFER: The user can talk to the call forwarding destination when the call is in Pretalk.
 Otherwise, the call transfer is completed directly.
- BLIND CALL TRANSFER: The call transfer is always completed directly. The user cannot talk to the call forwarding destination.
- ATTENDED CT WITH PRETALK OTHERWISE BLIND CT: The user can talk to the call forwarding destination when the call is in Pretalk. Otherwise, the call transfer is completed directly.
- CALL FORWARDING OVER COLLABORATION SERVER LINE: Select this mode if the THipPro should control the whole process and the call forwarding destination is a Microsoft Teams account. Internal collaboration server lines must be reserved for call forwarding on the LINE INTERFACE configuration page. The THipPro routes audio between the caller line and the call forwarding line. The telephone line is blocked until the caller has hung up.



Client Settings (5)

- NUMBER / COLLABORATION SERVER ACCOUNT: You could leave this field empty or enter a telephone number or a Microsoft Teams account. If the field is empty the user will be prompted to enter the call forwarding destination. Otherwise, the call is forwarded to the number entered here.
- NAME: Define the label of the call forwarding button in the top menu bar.
- The call forwarding button in the top menu bar is used to toggle between the two call forwarding modes. The button switches back to the first mode after each call transfer. The second mode is only used temporarily. The label shows which mode is active.

Call Forwarding 1st. default telephone number: 2nd. default telephone number:	ECT - Attended CT with PRE TALK otherw ECT - Attended Call Transfer	vise Blind CT 🗸 🗸	110	Name Name	Desk Free
	CallOut	R	vesk	Phone Bool	k



Application Parameters (1)

Configuration	×
MAGIC THipPro ACip3 1	Application Parameters
Local Client Settings — Font Settings — Chat — Quick Dials — PRETALK Streaming/Recording — Social Media — Settings Folder	Main Window Presentation Screen resolution: 1320°1050 Main window size: Auto Use Studio Logo if available Client Logo: XVVT\Logo.png Iterial or (filterial) can be insetted as placeholder at any position of the logo path, if content filters are used. Side-Bar size: 15 2 of the main window widh Show Side-Bar (f available) application startup Browse Show window on fixed position X (0 Y: 0 Use unicode dirpbats (instead of using Wingdings font) in default button text Wide buttons on caller lines On incoming call Prop up window Play life Ring wav Xid in the wave file name will be replaced by the line index (Ibased) of the line with the incoming call. Coglie Coglie Logifie Browse Logifie Browse Logifie Browse Logifie Browse Logifie On't log enhanced database/screening messages
Client ID: 5 Studio: 1	OK Abbrechen

Application Parameters (2)

- Define the display of the interface of the software as well as logging on the APPLICATION PARAMETERS configuration page.
- SCREEN RESOLUTION: Displays the screen resolution of the monitor the application is displayed on as it is provided by the operating system. This may be different from the resolution defined in the graphic card driver due to the high DPI scaling feature of the operating system.
- MAIN WINDOW SIZE: Define the size of the main window. Several options are available:
 - AUTO: The window will automatically take up the full screen without covering the taskbar. The window size is determined when the application starts. If the screen resolution changes or the taskbar changes, the application needs to be restarted.
 - CUSTOM: Set a custom windows size in pixels. The width and the height must be between 400 and 7680 pixels.

- Predefined sizes: Select one of the predefined windows sizes.
- LOGO: The LAN client software can display a custom logo in the top right corner if there is enough space in the top menu bar. The recommended format is PNG with 400x200 pixels and transparent background.
 - USE STUDIO LOGO IF AVAILABLE: Enable this option to display the logo defined in the configuration of the MAGIC THipPro on the STUDIO SETTINGS configuration page. The studio logo is displayed if the path is available for the client.
 - CLIENT LOGO: Define the logo locally if the studio logo cannot be used. Use the {filterid} or {filtertitle} placeholders to set different logos for each login when USER CONTENT FILTERs are activated.
- SIDEBAR SIZE: Define the width of the sidebar on the right in fractions of the app's windows size. The sidebar display LAST CALLS, RECORDINGS or ANSWERING MACHINE messages.

Application Parameters (3)

- SHOW SIDEBAR (IF AVAILABLE) AT APPLICATION STARTUP: By default, the sidebar is hidden. Enable this option to show the sidebar when the app starts.
- SHOW TITLE BAR (AFTER APPLICATION RESTART): By default, the window has no title bar. The title bar can be useful to drag the window around with the mouse.
 Enable this option to show the title bar. A restart of the application is required for the changes to take effect.
- REMEMBER LAST WINDOW POSITION: The last window position of the main window is stored when closing the app. The next time the app is started, the window is displayed in the same place if this option is enabled. Otherwise, it is displayed in the top left corner of the main screen.
- SHOW WINDOW ON FIXED POSITION: Define the position of the top left corner of the application window on the screen when the application starts. The top left corner of the main screen has the coordinates X=0, Y=0.

- USE UNICODE DINGBATS (INSTEAD OF WINGDINGS FONT) IN DEFAULT BUTTON TEXT: Define whether to use the Microsoft Wingdings font or Unicode dingbat characters for default labels of the On Air buttons (①,
 ②, …). Nowadays most fonts include the Unicode characters. So, it is recommended to enable this option.
- WIDE BUTTONS ON CALLER LINES: Enable this option to use wider buttons for Pretalk, Hold, On Air,
- THICK BUTTON BORDER: Enable this option display thicker edges on the Pretalk, Holk, On Air, ... buttons.
- ON SCREEN KEYBOARD: The application can display an on-screen keyboard for text entry. Select a keyboard layout by loading the corresponding KEYBOARD FILE from the installation directory. The keyboard is automatically displayed when it is needed.



Application Parameters (4)

- ON INCOMING CALL: Apart from blinking audio line buttons the application can indicate incoming calls in two more ways:
 - POP UP WINDOW: Enable this option to bring the LAN client window into the foreground when a call comes in.
 - PLAY FILE: Enable this option to play the specified audio file when a call comes in. Use %d to play a different file for each line.

Example: File name C:\Ring %d.wav An incoming call on the first line plays the file C:\Ring 1.wav. Second line = C:\Ring 2.wav.

- ADD TOUCH SCREEN CLEANING OPTION TO MAIN MENU: Enable this option to add a button labeled "Touch Screen Cleaner" to the menu sidebar. Press that button to disable the whole screen for the specified time. During this time the screen can be cleaned without making any undesired inputs. Press escape to abort.
 - DISABLE TOUCH FOR N SECONDS: Set time needed for cleaning the screen.

- LOGFILE: The LAN client software writes one logfile per day. The file name ends with log-01.txt, log-02.txt, The number stands for the day of the month. So, the logfiles are overwritten each month.
 - LOGFILE FOLDER: Specify the folder to store the logfiles in.
 - BROWSE: Select a logfile folder from the file system.
 - OPEN: Press the button to open the logfile of the current day.
 - FILE NAME FORMAT: Specify the file name and optional subfolder.
 - Adding <lan-client> to the file name is recommended when LAN client and Screener use the same logfile folder.
 - Adding <computer name> to the path is recommended when the logfiles of several clients are written to a common network share.
 - DON'T LOG ENHANCED DATABASE / SCREENING MESSAGES: Enable this option to get smaller logfiles. Not recommended.



Font Settings (1)

ontia	urat	ion

Configuration					
MAGIC THipPro ACip3 1	Font Settings				
Local	– Caller Line				
- Application Parameters		Font Name	Font Size	Font Weight	
<mark>Font Settings</mark> Chat	Line label:	<default> ~</default>	<default> ~</default>	<default> ~</default>	
Quick Dials PRETALK Streaming/Recording	Info button (Name):	<default> ~</default>	<default> ~</default>	<default> ~</default>	
Social Media Settings Folder	Info button (Number/City):	<default> ~</default>	<default> ~</default>	<default> ~</default>	
	Screening information:	<default> ~</default>	<default> ~</default>	<default> ~</default>	
	Comment:	<default> ~</default>	<default> ~</default>	<default> ~</default>	
	Received DTMF information:	<default> ~</default>	<default> ~</default>	<default> ~</default>	
	Connection time:	<default> ~</default>	<default> ~</default>	<default> ~</default>	
	Top Line				
	Button:	<default> ~</default>	<default> ~</default>	<default> ~</default>	
	Side Bar				
	Text:	<default> ~</default>	<default> ~</default>	<default> ~</default>	
	Small text:	<default> ~</default>	<default> ~</default>	<default> ~</default>	
Client ID: 5 Studio: 1					OK

Font Settings (2)

- Define how text is displayed on the main window on the FONT SETTINGS page.
- For each element you can change:
 - FONT NAME
 - FONT SIZE
 - FONT WEIGHT
- CALLER LINE: The text elements on the telephone lines:
 - LINE LABEL
 - INFO BUTTON (NAME)
 - INFO BUTTON (NUMBER / CITY)
 - SCREENING INFORMATION
 - COMMENT
 - RECEIVED DTMF INFORMATION
 - CONNECTION TIME.

- TOP LINE: The button labels on the top menu bar.
 - BUTTON
- SIDEBAR: The text elements on the menu sidebar.
 - TEXT
 - SMALL TEXT
- For each element you can select <default> to reset the value to application default.



Chat(1)

Configuration		<
MAGIC THipPro ACip3 1 Local Client Settings Application Parameters Font Settings Quick Dials PRETALK Streaming/Recording Social Media Settings Folder	bat Chat Position: Skoke Chat Position: Al Studio Clients On new message Play tile That height: 10 Pop up window	
Client ID: 5 Studio: 1	OK Abbrechen	



Chat (2)

- Define how the LAN client can access the THipPro chat on the CHAT page.
- The PC clients have an integrated chat function. A chat window can be displayed in the sidebar on the right.
- SHOW CHAT: Enable this option if the chat window should be displayed on this client.
- POSITION: The chat window can either occupy the upper or the lower half of the sidebar on the right.
- HEIGHT: Define the height of the chat window in fractions of the total height of the sidebar on the right.
- DEFAULT CHAT GROUP: There are several chat groups. Define which one is show when starting the LAN client.
 - ALL STUDIO CLIENTS: The chat group includes all client of a studio.

- LAN CLIENTS: The chat group includes all LAN clients of the studio.
- SCREENER: The chat group includes all Screener clients of the studio.
- ON NEW MESSAGE: Define how a new message is indicated.
 - PLAY FILE: Enable this option to play the specified audio file.
 - FLASH: Enable this option to make the frame of the chat feed flash.
 - POP UP WINDOW: Enable this option to bring the application window to the foreground.



Quick Dials

- Up to ten individual quick dials for each LAN client can be configured on the QUICK DIALS page.
- The Quick Dials are displayed on the right in the phone book.
- NAME: Enter the name which is displayed on the quick dial button in the phone book.
- NUMBER: Enter the telephone number or the Microsoft Teams account which is dialled when the quick dial button in the phone book is pressed.
- USE COLLABORATION SERVER: Enable this option if a Microsoft Teams account is entered under NUMBER.

Configuration									×	
MAGIC THipPro ACip3 1	Quick Dials									
Local	Quick Dials									
- Application Parameters		Name	Number		Use Collaboration	Server				
Font Settings	1:	Peter	205							
Chat	2	Paul	206							
Quick Dials	-	lin	101							
Social Media	3:	JIM								
Settings Folder	4:	John	387							
	5:	Doc	III to							
	6:	Jane	Deter	Search / Phone Number						
	7:	Home	Peter	pearent mone number						
	8:	Service	Paul							
	9	Hotline	line	1 2 3	AC					
	. 10	Diese	Jim							
	TU:	Pizza	John	4 5 6	С					_
			Doc	7 8 9						
			Town							
			Jane	* 0 #				2 2		9
			Home	* 0 #				£ £ `		Ø
			Service							
			Hotline							
			Pizza	CALL		New	Delete	Edit		CLOS
			Pizza	CALL	_	New	Delete	Edit		crosi
										-
Client ID: 5 Studio: 1						OK	Abbrechen			

PRETALK Streaming / Recording (1)

Configuration				
MAGIC THipPro ACip3 1	PRETALK Streaming/Recording			
Local Client Settings Application Parameters Font Settings	Pretalk Interfaces Audio Input: Default Communication Device	Recording Interfaces Recording Input:	Primärer Soundaufnahmetreiber V	
Chat Quick Dials <mark>PRETALK Streaming/Recording</mark> Windows Integration Social Media Settings Folder	Stream test signal to MAGIC THipPro Quality: Telephone (Default) Audio Output: Default Communication Device Play test signal on audio output	Recording Output:	Primärer Soundtreiber 🗸 🗸	
	General Recording Device: Pretalk Interface ✓ Recording Mode: Record caller and presenter to a mono audio file ✓ Use Studio Recording Folder if available	Playback Device:	Pretalk Interface ~	
	Client Recording Folder: X:\Public\AVT\MAGIC THipPro\Recordings Show all recordings Automatically start recording when switching to PRETALK		Browse	
	External Audio Editor:		browse	
Client ID: 6 Studio: 1			OK Abbrechen	



PRETALK Streaming / Recording (2)

- There are two ways of using the built-in audio interfaces of the PC for Pretalk with a caller on the THipPro.
- PRETALK STREAMING
 - Can be used for Pretalk or as audio interface for the answering machine. (See CONFIGURATION - ANSWERING MACHINE for more details.)
 - The audio signal of an audio input of the PC is streamed to the THipPro by the LAN Client.
 - The THipPro streams the audio signal of the caller to the PC.
 - The LAN client outputs the audio signal of the caller to an audio interface of the PC.
 - A Pretalk stream is either fixed, where there is a permanent stream between the PC and the THipPro, or dynamic, where the LAN client requests a stream from the THipPro when needed.
 - The audio signals of the caller and the user can also be recorded by the LAN client.
 - The RECORD button on the LAN client is only available when at least one call is in Pretalk.

- PRETALK RECORDING
 - Can be used if the audio signals are transmitted between THipPro and PC via the audio interfaces of the THipPro (analogue, AES/EBU, AES67, Dante, Ravenna).
 - The LAN client can record the audio signal from the audio input of the PC.
 - The LAN client can use an audio output of the PC to play back the recordings.
 - The RECORD button on the LAN client is always available.



PRETALK Streaming / Recording (3)

- PRETALK INTERFACES: Define the audio interfaces of the PC which should be used for Pretalk streaming.
 - AUDIO INPUT: All available audio inputs are listed here. Select an audio input, the Primary Sound Capture Driver or the Default Communication Device. (Check the sound settings of the operating system to see which audio interfaces are set as Primary Sound Capture Driver and Default Communication Device.)
 - STREAM TEST SIGNAL TO THIPPRO: If enabled, the LAN client uses the clock provided by the audio interface to generate an audio signal which is streamed to the THipPro. There must be a telephone line in pretalk to hear the audio signal at the caller's end.
 - QUALITY: Select the audio quality for the audio stream from the PC to the THipPro. That's what the caller hears. There are two options:
 - TELEPHONE: Lower audio quality, saves bandwidth (default)
 - HD-VOICE: Higher audio quality
 - AUDIO OUTPUT: All available audio outputs are listed here. Select an audio output, the Primary Sound Driver

or the Default Communication Device. (Check the sound settings of the operating system to see which audio interfaces are set as Primary Sound Driver and Default Communication Device.)

- PLAY TEST SIGNAL ON AUDIO OUTPUT: If enabled the LAN client generates an audio signal and plays it on the audio output if a pretalk stream from the THipPro is received.
- RECORDING INTERFACES: Define the audio interfaces of the PC which should be used for Pretalk Recording.
 - AUDIO INPUT: All available audio inputs are listed here. Select an audio input or the Primary Sound Capture Driver. (Check the sound settings of the operating system to see which audio interface is set as Primary Sound Capture Driver.)
 - AUDIO OUTPUT: All available audio outputs are listed here. Select an audio output or the Primary Sound Driver. (Check the sound settings of the operating system to see which audio interface is set as Primary Sound Driver.)



PRETALK Streaming / Recording (4)

GENERAL

- RECORDING DEVICE: Define if Pretalk Streaming or Pretalk Recording should be used when pressing the RECORD button on the main panel of the LAN client software.
 - PRETALK INTERFACE: Select if Pretalk Streaming should be used.
 - RECORDING INTERFACE: Select if Pretalk Recording should be used.
- PLAYBACK DEVICE: Define which audio output device should be used for playback of recorded audio files.
 - PRETALK INTERFACE: Select if the output device of Pretalk Streaming should be used.
 - RECORDING INTERFACE: Select if the output device of Pretalk Recording should be used.
- RECORDING MODE: Define which audio signals should be recorded.
 - RECORD CALLER TO A MONO AUDIO FILE: Only the audio signal of the caller is recorded and written to a

mono audio file.

- RECORD CALLER AND PRESENTER TO A STEREO AUDIO FILE: The audio signals of the caller and the user of the LAN client are recorded and written to separate channels of a stereo audio file.
- RECORD CALLER AND PRESENTER TO A MONO AUDIO FILE: The audio signals of the caller and the user of the LAN client are recorded and mixed into a mono audio file.



PRETALK Streaming / Recording (5)

- USE STUDIO RECORDING FOLDER IF AVAILABLE: Enable this option if the recordings should be stored in the Recording folder which is defined on the STUDIO SETTINGS configuration page of the THipPro. If the studio recording folder is not available for the LAN client, it will use the client recording folder.
- CLIENT RECORDING FOLDER: Specify the folder where recordings should be stored. This could be a local folder or a network share. Use the BROWSE button to select a folder from the file system.
- SHOW ALL RECORDINGS: By default, the LAN client displays only the recordings created by itself in the Recordings list in the sidebar on the right. Enable this option to display all recordings present in the recording folder used by the LAN client.
- AUTOMATICALLY START RECORDING WHEN SWITCHING TO PRETALK: Enable this option to automatically record any caller in Pretalk. Recording stops automatically when a call is switched to Hold

or On Air or when the call is dropped.

 EXTERNAL AUDIO EDITOR: Define an external audio editor. Display the Recordings list on the sidebar on the right. Click on a recording with the right mouse button and click EDIT to open the recording in the specified audio editor.



Windows Integration (1)

Configuration	×
MAGIC THipPro ACip31 Local - Client Settings - - Application Parameters - - Font Settings - - Quick Dials - - PRETALK Streaming/Recording - - Windows Integration - - Social Media - - Settings Folder -	Windows Integration Click-to-call via hyperink Audo Line: My PRETALK Call out on Line Group: Any Register Click-to-call to this Application Remove this Application from Click-to-call
Client ID: 1 Studio: 1	OK Abbrechen



Windows Integration (2)

- Enable the click-to-call integration of the LAN client on the WINDOWS INTEGRATION page.
- With click-to-call the user can click telephone links
 e. g. on websites to call via the THipPro.
- For that, the LAN Client must be registered in Windows for click-to-call.
- AUDIO LINE: Select an audio line of the THipPro which is used for calling.
- CALL OUT ON LINE GROUP: The THipPro uses a free line of this line group to call out.
- REGISTER CLICK-TO-CALL TO THIS APPLICATION: Register the LAN client for click-to-call in Windows.
- REMOVE THIS APPLICATION FROM CLICK-TO-CALL: Unregister the LAN client from click-to-call in Windows.



Social Media (1)

Configuration		×
Local MAGIC THipPro	Social Media	
Client Settings Application Parameters Font Settings Chat Quick Dials PRETALK Streaming/Recording Windows Integration Social Media Settings Folder	Iwiter Show Ragged messages Show Read messages Show Unread messages	
Client ID: 6 Studio: 3	OK Abbrechen	



Social Media (2)

- Control which X (Twitter) posts are displayed in the LAN client software on the SOCIAL MEDIA page.
- TWITTER
 - SHOW FLAGGED MESSAGES
 - SHOW HIDDEN MESSAGES
 - SHOW READ MESSAGES
 - SHOW UNREAD MESSAGES

Settings Folder (1)

Configuration	×
MAGIC THipPro ACip3 1 Local Client Settings Application Parameters Font Settings Chat Quick Dials PRETALK Streaming/Recording Social Media Settings Folder	Settings Folder Save settings* of for current user (nonnoaming) of for current user (noaming) of all users of this folder (from settings ini) on this folder (from command line argument /rin_file) Browse General* Save settings encrypted *Windows Administrator Rights may be needed
Client ID: 5 Studio: 1	OK Abbrechen



Settings Folder (2)

- Define the storage location of the local settings on the SETTINGS FOLDER page.
- Local settings include all settings under the LOCAL tab in the system configuration as well as the settings under MENU – CONFIGURATION – CONTROL INTERFACE.
- The selected storage location determines which access rights are required to change the local settings.
- Changing these settings may require administrator rights.
- Select a settings location:
 - FOR CURRENT USER (NONROAMING): The settings are saved in the user directory of the logged-in account and are not synchronized to other PCs. User rights are sufficient to change the local settings. (%APPDATA%\LOCAL\AVT\MAGIC THipPro LAN)
 - FOR CURRENT USER (ROAMING): The settings are saved in the user directory of the logged-in account

and synchronized to other PCs in the domain. User rights are sufficient to change the local settings. (%APPDATA%\ROAMING\AVT\MAGIC THipPro LAN)

- FOR ALL USERS: All users of the PC use the same settings. Administrator rights are required to change the local settings. (%PROGRAMDATA%\AVT\MAGIC THipPro LAN)
- IN THIS FOLDER (FROM SETTINGS.INI): The settings are saved in an adjustable folder path. The required user rights are determined by the file's properties. The path is saved in the settings.ini file in the installation directory.
- IN THIS FOLDER (FROM COMMAND LINE ARGUMENT /INI_FILE): The settings are saved in an adjustable folder path. The path was passed by command line parameter. The access rights of the folder determine who can change the Local Settings.
- STORE SETTINGS ENCRYPTED: Enable to encrypt the content of the local settings file.

MAGIC THipPro Screener

Local Configuration

MAGIC THipPro MAGIC THipPro Pure



General (1)

General	Connect to
Operation	Interface: Intel(R) Gigabit CT Desktop Adapter #2 / 172.20.225.1 - Private
	IP Address: 172.20.30.25 Port: 10000 Alias: TF-THipPro
Screener	Backup system available: 🗹
Presenter	IP Address: Port: 10000 Alias:
Pretalk	Computer Name Alias: Use Pretalk: Default
Appearance	Logfile
Colours	Logfile Folder: C:\Users\Public\AVT\MAGIC THipPro\Logfiles
Database	File Name Format: <folder>\log-<day month="" of="">.txt (default)</day></folder>
Twitter	Default Export Folder E-Mail
Import External Data	Folder: C:\Users\Public\AVT\MAGIC THipPro\Export Enabled:
Notifications	Master ability Login Password
	Enabled: 🖂 Password:
	Save Settings*
	for all users C:\ProgramData\AVT\MAGIC THipPro Screener
	for current user C:\Users\screener\AppData\Roaming\AVT\MAGIC THipPro
	 in this folder
	* requires Windows Administrator rights
	Save Configuration OK Cancel



General (2)

- Click the MENU icon in the top left corner of the THipPro Screener software and select LOCAL CONFIGURATION.
- A window will be displayed showing the GENERAL configuration page.
- CONNECT TO: Specify how the Screener software connects to a THipPro.
 - INTERFACE: Select the network card of the PC which has access to the THipPro. Select DEFAULT to let the operating system determine the network card automatically.
 - IP ADDRESS: Enter the IP address of the LAN interface of the THipPro to be used for control.
 - PORT: Enter the port number used for PC control (default = 10 000)

- ALIAS: Using the Studio button in the top bar of the main panel, you can switch between the main device and the backup device. The text entered here is shown on the button instead of the IP address of the device.
- BACKUP SYSTEM AVAILABLE: Enable this option if the user should be able to switch between two THipPro devices via a button in the top bar of the main panel.
 - IP ADDRESS: Enter the IP address of the LAN interface of the THipPro to be used for control.
 - PORT: Enter the port number used for PC control (default = 10 000)
 - ALIAS: Using the Studio button in the top bar of the main panel, you can switch between the main device and the backup device. The text entered here is shown on the button instead of the IP address of the device.

General (3)

- COMPUTER ALIAS NAME: By default, the Client ID of the Screener is defined by entering the computer name or IP address in the CLIENTS / SECURITY list of the MAGIC THipPro configuration. If multiple clients should share the same client ID, an alias must be defined in the COMPUTER NAME / IP ADDRESS column of the CLIENTS / SECURITY list. The same alias is then entered here. Define an individual Pretalk interface for the client with USE PRETALK.
- USE PRETALK: Only available if CLIENT = TAKE IT FROM LOCAL SETTINGS.
 - DEFAULT: The client uses the Pretalk interface defined on the CLIENTS AUDIO ASSIGNMENT configuration page.
 - PRETALK N: Select an individual Pretalk interface.
- LOGFILE: The Screener software writes one logfile per day. The file name ends with log-01.txt, log-02.txt, The number stands for the day of the month. So, the logfiles are overwritten each month.
 - LOGFILE FOLDER: Specify the folder to store the logfiles in.
 - BROWSE: Select the logfile folder from the file system.
 - OPEN: Press the button to open the logfile of the current day.

- FILE NAME FORMAT: Specify the file name and optional subfolder.
 - Adding <screener> to the file name is recommended when LAN client and Screener use the same logfile folder.
 - Adding <computer name> to the path is recommended when the logfiles of several clients are written to a common network share.
- DEFAULT EXPORT FOLDER: The Screener client can display several lists like Last Callers, Noted Callers, The lists can be exported to PDF or EXCEL files. Specify the folder where the exported files will be stored here.
 - BROWSE: Select the export folder from the file system.
- E-MAIL ENABLED: Enables sending exported PDF or EXCEL files via E-Mail.



General (4)

- MASTER ABILITY ENABLED: Access to shared resources like the database or dynamic Hold files is managed by the master client. The master client is automatically determined by the system from all connected clients. If a client does not have access to shared resources, the master client ability should be deactivated for that client.
- LOGIN PASSWORD: Define a password to restrict access to the menu side bar. Only SYSTEM INFORMATION and SYSTEM MONITOR will be available without logging in.
- SAVE SETTINGS: Define the storage location of the local settings here.
 - Local settings include all settings in the LOCAL CONFIGURATION window.
 - The selected storage location determines which access rights are required to change the local settings.
 - Changing these settings may require administrator rights.

- Select a settings location:
 - FOR ALL USERS: All users of the PC use the same settings. Administrator rights are required to change the local settings. (C:\ProgramData\AVT\MAGIC THipPro Screener)
 - FOR CURRENT USER: The settings are saved in the user directory of the logged-in account and synchronized to other PCs in the domain. User rights are sufficient to change the local settings. (%APPDATA%\ROAMING\AVT\MAGIC THipPro Screener)
 - IN THIS FOLDER: The settings are saved in an adjustable folder path. The path is saved in the settings.ini file in the installation directory. The access rights of the folder determine who can change the Local Settings.
 - BROWSE: Select the storage location from the file system.



Operation (1)

General	Operation Mode On incoming call
Operation	Screener Hide Data Entry Mask Pop up window:
Screener	O Presenter View only Play WAV file: with line no: O Presenter ON AIR Folder: C:\Program Files (x86)\AV
Presenter	O Data Manager Change RING.WAW for own sounds
Pretalk	O Call Out (requires Layout_CallOut_1920x1080)
Appearance	General
Colours	Show ON AIR button labels: Prevent multiple Instances: Show Quick Dial buttons: Show CLEAN TOUCH SCREEN:
Database	
Twitter	Global Default Strings (requires application restart)
Import External Data	Salutation for male callers: Mr. Only without First Name: 🔽
	Salutation for female callers: Ms. (In Screener mode always active)
Notifications	Display 'Anonym' marked callers as: (only in Presenter mode or LAN client visible) * Anonymity Requested *
	Chat
	Show Chat: 🗹 Default Chat Group: STUDIO - all clients of my studio
	Position: Main/Right List - Top V Height: 10% V
	On new message Beep: Flash: Popup up: Hide Quick Messages:
	Save Configuration OK Cancel


Operation (2)

- Set the operation mode and further basic settings on the OPERATION page.
- OPERATION MODE: The Screener software provides several modes which are optimized for certain use cases.
 - SCREENER: Default mode. This mode is optimized for telephony and data acquisition and editing. Provides a Pretalk audio line, lists and the data entry mask.
 - HIDE DATA ENTRY MASK: The data entry mask can be disabled. Entering data on the line itself is still possible.
 - PRESENTER: This mode is optimized for displaying caller information and minimal interaction with the system for the user.
 - VIEW ONLY: The telephone lines cannot be controlled by the user. The Screener is just used to display caller information and line status.
 - PRESENTER ON AIR: Same as PRESENTER.
 - DATA MANAGER: This mode is optimized for editing caller information data. No telephone lines are displayed.

- CALL OUT: Very similar to SCREENER. It displays only one ON AIR button and hides the HOLD button. The data entry mask allows direct access to up to six phone numbers per contact. The layout "Call Out 1920x1080" must be used. (See SCREENER configuration page.)
- ON INCOMING CALL...: The Screener software can notify the user when a call comes in.
 - POP UP WINDOW: Brings the Screener window to the foreground.
 - PLAY WAV FILE: The screener plays an audio file specified under FOLDER on the default audio interface of the PC. The filename must be RING.WAV. It must be a PCM encoded file in WAVE file format.
 - WITH LINE NO: Enable this option if there is an individual audio file for each line. The file names must be RING1.WAV, RING2.WAV,
 - FOLDER: Specify the folder of the audio file. By default, the installation directory of the Screener software is used.
 - USE PRETALK / REC. SOUND DEVICE: The Screener plays the audio on the audio interface defined under PRETALK.



Operation (3)

GENERAL

- SHOW ON AIR BUTTON LABELS: By default, the Screener software shows AIR 1 or AIR 2 on the ON AIR buttons. Enable this option to show the labels defined on the MODE & AUDIO LINE page of the system configuration.
- SHOW QUICK DIAL BUTTONS: Enable this option to display 16 quick dials on the dialog for manual dialling. Open the manual dialling dialog in the main window and click on a quick dial with the right mouse button to configure it. Click on it with the left mouse button to dial the number.
- PREVENT MULTIPLE INSTANCES: Enable this option if the software should prevent that a second Screener software can be started on the PC.
- SHOW CLEAN TOUCH SCREEN: Enable this option to show a button in the menu sidebar which allows for preventing any user input for a certain timespan. During this time the screen can be cleaned.
 - TIMER: Set the amount of time the screen ignores user input.

- GLOBAL DEFAULT STRINGS: Changes made here only take effect after restarting the Screener application.
 - SALUTATION FOR MALE CALLERS: Default: Mr.
 - SALUTATION FOR FEMALE CALLERS: Default: Ms.
 - ONLY WITHOUT FIRST NAME: Enable this option if the salutation should only be shown when the first name of the caller is not stored in the database. In Screener mode this is always active.
 - DISPLAY 'ANONYM' MARKED CALLERS AS: Enter the text that is displayed when a caller is stored in the database as anonymous. The text is only displayed in Presenter mode and in the LAN client.



Operation (4)

CHAT

- The PC clients have an integrated chat function.
- SHOW CHAT: Enable to access the chat on this client.
- DEFAULT CHAT GROUP: Select which group receives messages by this client by default. Other groups can be addressed using @<Group/User>:
 - @All or @Studio: All clients of a studio
 - @Screener: All Screener clients of a studio
 - @LAN: All LAN clients of a studio
 - @ChatName: Dedicated client
- POSITION: Define where the chat window is displayed:
 - RESIZABLE WINDOW: The chat is shown in an extra window floating on the screen. The chat window can be positioned and resized using the mouse. To open the chat window press CTRL + SHIFT + C.
 - DATA ENTRY MASK BOTTOM: The chat is shown below the data entry mask on the right.
 - MAIN / RIGHT LIST TOP: The chat is shown above the main list. If two lists are shown side by side, it is shown above the right list.
 - LEFT LIST TOP: If two lists are shown side by side, the chat is displayed above the left list.

- ON NEW MESSAGE: Define how a new chat message is signalled to the user.
 - BEEP:
 - FLASH: The frame of the chat window flashes in red.
 - POPUP UP: A window pops up informing the user.
- HIDE QUICK MESSAGES: There are three buttons at the bottom of the chat window. Right click on a button to define a quick message which is sent when clicking the button with the left mouse button. Enable this option to hide the quick message buttons.



Screener (1)

General	Layout Settings			
Operation	Standard Layout: Default		~	
£	Show Address after Prize only:			
screener				
Presenter	Hide Line Information:			
Pretalk	Hide LIOLD butters			
Annearance				
Appearance	Show Profiles		Caller Notification	
Colours	Use show profiles:		Note caller automatically:	
Database	Allow editing of show profiles:		Allow 'Noted' on caller lines:	
Twitter	Allow changing of show profiles:			
Import External Data	- Competitions			
Notifications	Enable Competitons: 🔽		Allow managing of winner lists:	
	Allow editing/creating competitio	ns: 🔽	Add address in Event/Winner list:	
	Allow de-/activation of competitio	ons: 🔽	Allow only 'Edit Mode' for client:	
	- Restrictions			
	Restrict LIST/DELETE/SQL/PRINT &	EXPORT CON	MPLETE DATABASE functions:	
	Save Configuration Load Con	figuration	OK Can	cel



Screener (2)

- LAYOUT SETTINGS: Define the layout of the data entry mask.
 - STANDARD LAYOUT: The Screener software comes with a variety of layouts for the data entry mask. The layout files are stored in the installation directory of the Screener software under \Layouts. To be able to select a layout here, the layout must be imported into the database first on the DATABASE configuration page. The layout DEFAULT is always available.
 - SHOW ADDRESS AFTER PRIZE ONLY: The address information fields (City, ZIP, Street) are not displayed until a prize is entered for a caller.
- HIDE / SHOW ELEMENTS: Modify the appearance of the phone lines.
 - HIDE LINE INFORMATION: Enable this option to hide the information field. on the phone lines.
 - HIDE HOLD BUTTON: Enable this option to hide the HOLD buttons on all lines.
- SHOW PROFILES: Show profiles help to group caller information when multiple shows use the same

database. Show profiles are created using the Profile Editor. For each show a title and several topics can be defined. Enable the show profile via the SELECT SHOW PROFILE button above the data entry mask. When the show profile is active you can assign one of the predefined topics to each caller and also enter contact details and additional information. Callers which sound interesting can be noted by pressing the star icon in the data entry mask. An editor can then review all noted callers and decide whom will make it into the show. These callers are then added to the Call Back List by the editor. The other contacts are dismissed. During the show the presenter sees the Call Back List where the contacts are displayed along with the topic and the additional information. The presenter can select a contact and call the number. After the show the Show Profile can be deleted if desired. Optionally, the contacts associated with the Show Profile can be deleted as well.



Screener (3)

- USE SHOW PROFILE: Enable this option to make Show Profiles available for this Screener client.
- ALLOW EDITING OF SHOW PROFILES: Enable this option if this Screener client should display the Profile Editor. Find the Profile Editor under MENU – PROFILE EDITOR.
- ALLOW CHANGING OF SHOW PROFILES: Enable this option to allow this Screener client to activate a Show Profile via the SELECT SHOP PROFILE button above the data entry mask.
- CALLER NOTIFICATION: A User can mark a caller by enabling the star icon in the data entry mask. This puts the caller on the Noted Callers list. An editor can later decide if that caller qualifies to be called back during the show. If that is the case the editor puts the caller on the Call Back list. Otherwise, the Noted status should be removed.
 - NOTE CALLER AUTOMATICALLY: A caller is noted automatically when changes to the Show Details of the caller are made in the data entry mask.
 - ALLOW 'NOTED' ON CALLER LINES: Enable to display the star icon on the phone lines as well.

 Competitions: It is possible to manage a whole competition only with the Screener application. Use the Competition Editor to create and edit competitions. Find the Competition Editor under the three-dot menu of the Competitions list.

If, for example, there is a lottery for concert tickets, a Screener user can enter the date, time and location of the event, the available ticket contingent and the number of tickets a winner will receive by default. Tickets for internal purposes can also be reserved here. The ticket price can also be entered for accounting. After the competition is finished the results and winners can be printed for the event team or for accounting.

- ENABLE COMPETITIONS: Enable the competitions feature for this client.
- ALLOW EDITING /CREATING COMPETITIONS: Enable the competition editor for this client.
- ALLOW DE- / ACTIVATION OF COMPETITIONS: Enable this option to allow this client to activate or deactivate a competition.

Screener (4)

- ALLOW MANAGING OF WINNER LISTS: Enable this option if the user should be able to use the right mouse button in the Winner list, e.g., to delete a winner.
- ADD ADDRESS IN EVENT / WINNER LIST:
- ALLOW ONLY 'EDIT MODE' FOR CLIENT: The client cannot start, end or continue a competition. Only the Edit mode is available which allows for editing the winner's information and the prizes won.
- RESTRICT LIST/DELETE/SQL/PRINT & EXPORT COMPLETE DATABASE FUNCTIONS: Enable this option if this client should not be allowed to:
 - DELETE LISTS
 - SHOW THE PHONEBOOK LIST
 - SHOW THE FLAGGED CALLERS LIST
 - SHOW THE GLOBAL SEARCH LIST

Presenter (1)

General	Operational Functions			
Operation	HOLD READY status activates	sline:		
	Show info when caller line is	s IN USE:		
Screener	Enable PREALLOCATED line:			
Presenter				
Pretalk	Hide/Show Elements			
	Hide Phone Number:		Hide Exit Button:	
Appearance	Hide Last Name:		Hide Minimize Button:	
Colours	Hide Age:			
	Hide Mood:			
Database	Hide Rating:			
X (Twitter)	I			
Import External Data	Appearance			
	Adjust Font Size: Max. Si	ize = 12 🗸		
Notifications	Alternative Presenter Layou	t: ☑		
Email	Single Line View (Name, A	ge, City): 🗌		
	Dual Line View (Name, Age	e City): 🗹		
	Save Configuration	ad Configuration	ОК	Cancel



Presenter (2)

OPERATIONAL FUNCTIONS:

- HOLD READY STATUS ACTIVATES LINE: Deprecated. Configuration moved the CLIENT RESTRICTIONS – ACTIVATE LINE in the MAGIC THIPPro configuration.
- SHOW INFO WHEN CALLER LINE IS IN USE: A line is displayed as IN USE when the caller is not ON AIR. Enable this option to show the caller information also when the caller is not ON AIR.
- ENABLE PREALLOCATED LINE: If this option is enabled a phone line with a preallocated caller is active and the number can be dialled. Disable this option to show a phone line with a preallocated caller as IN USE. The number can not be dialled.
- HIDE / SHOW ELEMENTS: Define which information or buttons should be visible:
 - HIDE PHONE NUMBER
 - HIDE LAST NAME
 - HIDE MOOD
 - HIDE RATING
 - HIDE EXIT BUTTON
 - HIDE MINIMIZE BUTTON

- APPEARANCE: Define how the caller information is presented to the user.
 - ADJUST FONT SIZE: Set the font size used for displaying caller information.
 - AUTO SIZE: The application decides on the font size depending on screen space and length of the information for each line independently.
 - FIX SIZE: The application decides on the font size used on all lines depending on screen space.
 - MAX. SIZE = N: Uses AUTO SIZE with the font size limited to N.
 - ALTERNATIVE PRESENTER LAYOUT: The default layout shows name and number of the caller on the left and the caller information on the right of the phone line. Enable the alternative layout to display the caller's name and number at the top and the information field at the bottom of the phone line.
 - SINGLE LINE VIEW (NAME, AGE, CITY): Enable to show name, age, and city in one line.
 - DUAL LINE VIEW (NAME, AGE | CITY): Enable to show name, age, and city in two lines.

Pretalk (1)

		_	
General	Pretalk Options		
Operation	Default Call-Forwarding/Transfer Number: 160		
Screener	Use Explicit-Call-Transfer (R) as default: 🔽		
Presenter	Pretalk Interfaces	_	
Pretalk	Audio input: Default Communication Device		
	Quality: Telephone (Default)		
Appearance	Audio output: Default Communication Device		
Colours	Recording Interfaces	_	
Database	Recording input: Primärer Soundaufnahmetreiber ~		
Twitter	Recording output: Primärer Soundtreiber		
mport External Data	General		
Notifications	Enable recording: 🗹 Automatically start recording when switching to PRETALK:]	
Notifications	Recording Device: Pretalk Interface V Playback Device: Pretalk Interface V		
Email	Recording Mode: Caller only (Mono file)		
	Use Studio Recording Folder if available: 🗌 Show recordings of all clients: 🗌		
	Client Recording Folder: C:\Users\Public\AVT\MAGIC THipPro\Recordings		
	External Audio Editor:		
	Save Configuration OK Cancel		



Pretalk (2)

- PRETALK OPTIONS: Define how calls can be transferred by the Screener.
 - DEFAULT CALL FORWARDING / TRANSFER NUMBER: If this field is empty, the user must enter the number the call should be transferred to. If a number is entered, clicking on the call transfer button on the main panel transfers the call automatically to that number. Click the call transfer button on the main panel with the right mouse button to enter the call transfer destination manually.
 - USE EXPLICIT-CALL-TRANSFER (R) AS DEFAULT: With explicit call transfer (ECT), the call transfer is done by the PBX or the provider. Disable this option if the THipPro has Call Forwarding lines configured on the LINE INTERFACE configuration page.
- There are two ways of using the built-in audio interfaces of the PC for Pretalk with a caller on the THipPro.

PRETALK STREAMING

- Can be used for Pretalk or as audio interface for the answering machine. (See CONFIGURATION -ANSWERING MACHINE for more details.)
- The audio signal of an audio input of the PC is streamed to the THipPro by the LAN Client.
- The THipPro streams the audio signal of the caller to the PC.
- The LAN client outputs the audio signal of the caller to an audio interface of the PC.
- A Pretalk streams is either fixed, where there is a permanent stream between the PC and the THipPro, or dynamic, where the LAN client requests a stream from the THipPro when needed.
- The audio signals of the caller and the user can also be recorded by the LAN client.
- The RECORD button on the LAN client is only available when at least one call is in Pretalk.

Pretalk (3)

PRETALK RECORDING

- Can be used if the audio signals are transmitted between THipPro and PC via the audio interfaces of the THipPro (analogue, AES/EBU, AES67, Dante, Ravenna).
- The LAN client can record the audio signal from the audio input of the PC.
- The LAN client can use an audio output of the PC to play back the recordings.
- The RECORD button on the LAN client is always available.
- PRETALK INTERFACES: Select the audio interfaces for audio input and audio output when using Pretalk Streaming at this client.
 - QUALITY: Select the audio quality for the audio stream from the PC to the THipPro. That's what the caller hears. There are two options:
 - TELEPHONE: Lower audio quality, saves bandwidth (default)
 - HD-VOICE: Higher audio quality

 RECORDING INTERFACES: Select the audio interfaces for audio input and audio output when using the Pretalk Recording at this client.



Pretalk (4)

- GENERAL:
 - ENABLE RECORDING: Enable this option to display the RECORD button on the main panel.
 - AUTOMATICALLY START RECORDING WHEN SWITCHING TO PRETALK: Enable this option to start recording automatically whenever a caller is put in Pretalk.
 - RECORDING DEVICE: Define whether Pretalk Streaming or Pretalk Recording should be used for capturing audio.
 - PLAYBACK DEVICE: Define whether Pretalk Streaming or Pretalk Recording should be used to playback recordings.
 - RECORDING MODE: Define the content and the format of the recordings:
 - CALLER ONLY (MONO FILE): Only the audio signal of the caller is recorded and written to a mono audio file.
 - CALLER & SCREENER (STEREO FILE): The audio signals of the caller and the user of the LAN client are recorded and written to separate channels of a stereo audio file.
 - CALLER & SCREENER (MONO FILE): The audio

signals of the caller and the user of the LAN client are recorded and mixed into a mono audio file.

- USE STUDIO RECORDING FOLDER IF AVAILABLE: Enable this option if the recordings should be stored in the Recording folder which is defined on the STUDIO SETTINGS configuration page of the THipPro. If the studio recording folder is not available for the Screener client it will use the CLIENT RECORDING FOLDER.
- SHOW RECORDINGS OF ALL CLIENTS: By default, the Screener client displays only the recordings created by itself in the Recordings list. Enable this option to display all recordings present in the recording folder used by the Screener client.
- CLIENT RECORDING FOLDER: Specify the folder where recordings should be stored. This could be a local folder or a network share. Use the BROWSE button to select a folder from the file system.
- EXTERNAL AUDIO EDITOR: Define an external audio editor. Display the Recordings list. Click on a recording with the right mouse button and click EDIT to open the recording in the specified audio editor.

Appearance (1)

General	Font & Reading Order General		
Operation	Name: Calibri 🗸 OS Keyboard: 🗌 Clock: 🗌		
Screener	Right-to-Left:		
Presenter	Window		
	Size: 1400 × 1050 ~		
Pretalk	X-Position: 0 Y-Position: 0 Remember Last Position:		
Appearance	- Lists		
Colours	List Size: Auto Vipul Split List View: 50%		
Database	Default List: Top/Right List: <last selected=""></last>		
Dutubuse	Bottom/Left List: Winner (Today)		
Twitter	List Details: Standard V Only for Noted Callers/Call-Back List		
nport External Data	– Caller Lines		
Notifications	Force 2-Column Line View: Allow INFORMATION below buttons:		
	- Logo		
	Hide Logo: 🗌 Use Studio Logo if available: 🗌		
	Client Logo: C:\Program Files (x86)\AVT\MAGIC THipPro SCREENER\Ressource:		
	Use PNG file with transparent background and a width of approx. 400 pixels		
	Alignment: Top Right 🗸		
	Save Configuration OK Cancel		



Appearance (2)

- FONT & READING ORDER: Define how text is displayed on the main panel of the Screener application.
 - NAME: Select a font from a small selection of fonts installed in your system.
 - RIGHT-TO-LEFT: Enable to display contact information right aligned.
- GENERAL
 - OS KEYBOARD: Enable to make use of the Windows 10 On Screen Keyboard when editing text.
 - CLOCK: Enable to display the time on the menu bar at the top of the main panel.
- WINDOW
 - SIZE : Define the size of the main window.
 - AUTO: The screener window will automatically take up the whole screen of the active monitor.
 - CUSTOM: Define your own window size
 - WIDTH: Enter the width of the window in pixels.
 - HEIGHT: Enter the height of the window in pixels.
 - PRE-DEFINED: Select one of the pre-defined window sizes.

- X-POSITION : Define the horizontal position of the main panel on the screen in pixels. 0 is the left border of the screen.
- Y-POSITION : Define the vertical position of the main panel on the screen in pixels. 0 is the top border of the screen.
- REMEMBER LAST POSITION: The screeners main window can be dragged around on the screen using the grip symbol (\(\(\vee)\) in the top right corner. If you enable this option, the screener window will open at the same position it was when the application was closed.



Appearance (3)

- LISTS: Define how lists like "Last Calls" or "Phone Book" are displayed on the main panel.
 - LIST SIZE: Set the width of the lists relative to the width of the main panel.
 - SPLIT LIST VIEW: Define how two lists are arranged on the main panel.
 - OFF: Only one list is displayed.
 - SIDE-BY-SIDE: The lists are displayed next to each other.
 - PERCENTAGE: The lists share one column. Select a percentage to define how much space the upper list takes up.
 - DEFAULT LIST: Define what the lists display when starting the screener application. The content of the list can be changed by the user during operation by clicking the header of a list and selecting a type from a pop up. You can set the content type for:
 - TOP/RIGHT LIST
 - BOTTOM / LEFT LIST
 - LIST DETAILS: Define how much information is displayed in the "Noted Caller" list and in the "Call-Back" list:

- STANDARD
- EXTENDED
- MINIMIZED
- CALLER LINES: The software places the caller lines automatically depending on number of lines displayed and available space. Here you can influence the arrangement.
 - FORCE 2-COLUMN LINE VIEW: Caller lines are displayed in two columns next to each other.
 - ALLOW INFORMATION BELOW BUTTONS: The information field is displayed below the audio line buttons instead of next to them.



Appearance (4)

- LOGO: The Screener software can display a custom logo in the top right corner if there is enough space in the top menu bar. The recommended format is PNG with 400x200 pixels and transparent background.
 - HIDE LOGO: Disables the logo.
 - USE STUDIO LOGO IF AVAILABLE: Enable this option to display the logo defined in the configuration of the MAGIC THipPro on the STUDIO SETTINGS configuration page. The studio logo is displayed if the path is available for the client.
 - CLIENT LOGO: Define the logo locally if the studio logo cannot be used.
 - ALIGNMENT: If the logo is smaller than the space reserved, you can define how the logo is positioned:
 - TOP LEFT
 - TOP RIGHT
 - CENTER

- BOTTOM LEFT
- BOTTOM RIGHT

Colours (1)





Colours (2)

COLOUR ASSIGNMENT

- SELECT COLOUR THEME: Select one of the preinstalled colour themes. A preview is shown in the COLOUR ADJUSTMENT section.
- SHOW CALLER LINE GROUPING COLOURS: Display the caller line colours as a fine line next to the audio line buttons of each line. The colours are defined on the CALLER LINE GROUPING configuration page of the MAGIC THipPro.
- ... AS BACKGROUND COLOUR: Change the background colour of the whole line to the line group colour.
- Colour adjustment: Create your custom design here. The live preview in the middle of the screen shows how any changes made here affect the main panel.
 - SELECT BACKGROUND COLOUR: Define the background colour of the main panel. The colours of all elements of the page are derived from this colour.
 - SLIDERS: Use the sliders to adjust the brightness of specific elements of the main panel.

Database (1)

General	SQL Connection
Operation	Driver: SQL Server Native Client 11.0 V Disable SQL Server Ping:
Screener	Alternative User: Password: Requires a restart of SCREENER application
Presenter	Database
Pretalk	Delete Records Compress & Backup Restore Show Backup Export XLS Print PDF
Appearance	Import Area Codes
Colours	Area Code File: Start Import
Database	Import old Caller Database/Create new database
Twitter	SQL Server:
Import External Data	User: Create New
Notifications	Database: or MDB File:
	Layout: Default V Delete Layout Import Layout
	Eayout Default Defecte Layout Import Layout
	Status
	Save Configuration Load Configuration OK Cancel



Database (2)

- The SQL database holds the phonebook as well as area codes and Screener data input mask layouts.
- SQL CONNECTION: Define how the Screener software connects to the SQL database.
 - DRIVER: Select one of the installed SQL client drivers.
 - DISABLE SQL SERVER PING: The Screener software sends ICMP Echo Requests (ping) to the database server to check whether the server is available. Disable this option if these are blocked in your network.
 - ALTERNATIVE USER: By default, the Screener software uses the login credentials configured on the DATABASE configuration page of the THipPro. Enter a user name here, if you want to use a different login.
 - PASSWORD: Enter the password of the alternative user.
- DATABASE: Offers maintenance tools for the SQL database. The SQL Command Line Utilities must be installed on the PC.
 - DELETE RECORDS: Deletes all contacts from the phone book.

- COMPRESS & BACKUP: Optimizes the disk space used by the database and creates a backup of the database.
- RESTORE: Restores the phone book from a backup file.
- SHOW BACKUP: Opens the folder where the backup file is located in a windows explorer window.
- EXPORT XLS: Export the phone book to an Excel file.
- PRINT PDF: Print the phone book to a PDF file.
- IMPORT AREA CODES: Find area code files for some countries in the installation folder of the Screener software. Press the BROWSE button to select an area code file and press START IMPORT to import the area codes into the database.
 - You may create and import your own area code files following the example of the included files.



Database (3)

- IMPORT OLD CALLER DATABASE / CREATE NEW DATABASE: Import contacts from a MAGIC Touch database or create a new database here.
 - SQL SERVER: Enter the path to the SQL server were a new database should be created.
 - USER: Enter the login for the SQL server.
 - PASSWORD: Enter the password of the login.
 - DATABASE: Enter a database name. (Avoid special characters or spaces.)
 - CREATE NEW: Press to create a new database using the parameters given above.
 - MDB FILE: To import a database of the old AVT MAGIC Touch system, select the database file and press START IMPORT.
 - The data will be imported into the database configured on the DATABASE configuration page of the THipPro.
 - Existing entries are not overwritten.
- LAYOUTS: There are multiple layouts for the data input mask at the right of the main panel. Find predefined layouts in the installation directory of the Screener software. Only layouts stored in the database are available for the Screener. Manage the layouts here.

- LAYOUT: Displays all layouts which are installed in the database.
- DELETE LAYOUT: Erase the layout selected under LAYOUT from the database.
- IMPORT LAYOUT: Import a layout into the database. Find the predefined layouts in the installation directory of the Screener Software.
 - It is not possible to customize existing layouts or create new layouts.
 - Activate a layout on the SCREENER configuration page.
 - Use the PROFILE EDITOR in the menu side-bar to assign a layout to a show profile.
- STATUS: Displays the progress of any database operation started on this page.



X (Twitter) (1)

Im

General	X Application Setting	s	
Operation	Use X Application: 🗹 Enable X Search for this client: 🗸		
Operation			
Screener	Show UNREAD pos	sts: 🗹 Show FLAGGED posts: : 🗹	
Presenter	Show READ posts:	Show HIDDEN posts: : 🗹	
Pretalk	— Add/Delete X Applica	ition	
Appearance	Select X Application:	MAGIC THipPro Demo	~
Colours	Application Name:	MAGIC THipPro Demo	(must be unique)
Database	Owner:	AVT	
X (Twitter)	Consumer Key:	jfdoeuegnvhdthebsksirefbfv	
	Consumer Secret:	*****	**
port External Data	Signature Method:	HMAC-SHA1	
Notifications	Version:	1.0	
	Access Token:	409568-jhlkj467hlhg7k8gf6l54f6	
	Access Token Secret:	*****	*****
		Delete Application	Add Application
	For more details visit X Devel	opers → Manage Your Apps	
	Save Configuration	Load Configuration OK	Cancel



X (Twitter) (2)

- X APPLICATION SETTINGS: The MAGIC Screener software can display an X feed on the main panel if the SOCIAL MEDIA licence is installed on the MAGIC THipPro.
 - USE X APPLICATION: Enable the X list on the main panel.
 - The X list can be customized for each client:
 - ENABLE X SEARCH FOR THIS CLIENT
 - SHOW UNREAD POSTS
 - SHOW READ POSTS
 - SHOW FLAGGED POSTS
 - SHOW HIDDEN POSTS
- ADD / DELETE TWITTER APPLICATION: X offers an API to access one's X account using a custom app instead of the X app. Register on developer.twitter.com to apply for X API login.
 - SELECT TWITTER APPLICATION: Displays a list of installed X logins. Select a login to display the details below.
 - DELETE APPLICATION: Delete the selected application.
 - ADD APPLICATION: Fill in the login details above and press this button to install the X login.

Import External Data (1)

General	Import Settings
Operation	Allow External Data Import: 🔽
Screener	Default Import File: C:\Program Files (x86)\AVT\MAGIC\ImportDemo1.xlsx
Presenter	
Pretalk	
Appearance	
Colours	
Database	
Twitter	
Import External Data	
Notifications	
	Save Configuration OK Cancel



Import External Data (2)

- The Screener Software can be used to import contacts from a Microsoft Excel or text file into the phone book database. Define the parameters of the import on this page. The import itself is started via the side-bar menu of the Screener software.
 - ALLOW EXTERNAL DATA IMPORT: Enable this option to display IMPORT EXTERNAL DATA on the menu side-bar of the Screener software.
 - DEFAULT IMPORT FILE: Set the path of the file holding the data which should be imported.
 - An Excel or text file must be accompanied by a corresponding *.ini file with the exact same file name. The ini file holds some import parameters and a definition of the data columns in the Excel or text file.
 - Find example files in the installation directory of the MAGIC THipPro Screener software.

Notifications (1)

General	– Pushover Notificatio	ons	
Operation	Use Pushover:		Send Test Notfication
Screener	Application Name:	AVT	
	User/Group Key:	iwdlskdisoHGZGJHGuzg67868	
Presenter	API Token:	******	*****
Pretalk	Priority:	Emergency 🗸	
Appearance	Notification Sound:	Intermission	~
Colours	For more details visit Pusho	<u>ver.net</u>	
Database			
Twitter			
Import External Data			
Notifications			
	Save Configuration	Load Configuration	OK Cancel



Notifications (2)

- The Screener software can send notifications to the Pushover app which is available in the Google Play Store and in the Apple Store. There is also a Web application available for Google Chrome, Mozilla Firefox and Apple Safari.
- Notifications will be sent for:
 - Result of data import
 - Result of data export
 - Result of SQL user script (Press Ctrl+Q to enter the SQL Query and Script Manager from the main panel.)
- The notifications are displayed in the app until they are confirmed.
- Create your Pushover account at www.pushover.net and enter the API details here.



Email (1)

General	– Allow repo	rts to be sent via email in lists —		
Operation	Enabled:			
Screener	Use the fol	lowing account to send emails (requires MS Outlook)		
Presenter	Account:	~		
Pretalk	– Message fo	or WebRTC email invitation (max. 255 characters)		
Appearance	Use Collab	oration Server settings:		
Colours	Studio:	AVT1		
Database	Subject:	WebRTC Invitation - {LBL}		
X (Twitter)	Message:	Dear {FNA} {LNA}		
import External Data		Under the following link you can connect to our studio system via audio and video with any modern web browser. {LNK}Just contact us if you have any guestions.		
Notifications		Best regards		
Email		[210]		
		You can use the following variables: - {LBL} in Subject Message: Label Save - {FNA} in Subject Message: First Name - {LNA} in Subject Message: Last Name - {LNK} in Message: Position of WebRTC Link and Validity - {SIG} in Message: Email Account Signature		
	Save Confi	guration DK Cancel		



Email (2)

- The Screener client can use a local MS Outlook account to send Emails with content from the database or WebRTC invitations.
- ALLOW REPORTS TO BE SEND VIA EMAIL IN LISTS: Adds the options to EMAIL LIST AS PDF and EMAIL LIST AS XLS to the three-dot-menu of all lists on the main panel of the Screener application.
- USE THE FOLLOWING ACCOUNT TO SEND EMAILS: Select the Email account used for sending emails. Only accounts of the local Microsoft Outlook application are available.
- MESSAGE FOR WEBRTC EMAIL INVITATION: If the THipPro is connected to the Magic Collaboration Services, the Screener can be used to send WebRTC invitations. Define the email template here.
 - USE COLLABORATION SERVER SETTINGS: Enable

to use the template defined in the collaboration services and send the email via the collaboration server.

- STUDIO: Select the Studio you want the recipient to call.
- SUBJECT: Define an email subject.
- MESSAGE: Write an email template. The following variables can be used. They will be replaced in the resulting email.
 - FNA: First name
 - LNA: Last name
 - LNK: Individual WebRTC link
 - SIG: Email account signature

MAGIC THipPro MAGIC THipPro Pure

Maintenance

 Using the MAGIC LAN Client or MAGIC Screener Client PC software



Create/load and manage Presets (1)





Create/load and manage Presets (2)

- PRESETS allow for storing parts of the system configuration on the THipPro.
- Users can load PRESETS during operation.
- Loading a PRESET overwrites the current system configuration.
- Two types of PRESETS are available:
 - PRESET: Contains all configuration pages in the OPERATION SETTINGS branch.
 - SUPER PRESET: Contains all configuration pages in the OPERATION SETTINGS branch and SYSTEM SETTINGS branch.
- ADMINISTRATORS can:
 - Load presets.
 - Save presets.
 - Manage presets via MENU → CONFIGURATION → MANAGE PRESETS.

- Load presets via MENU \rightarrow SELECT PRESET.
 - Access to loading of PRESETS can be restricted by setting a USER PASSWORD in the configuration.
- In the MAGIC Screener software, SELECT PRESET is located in the top bar.
 - Open the PRESET MANAGER by clicking SELECT PRESET with the right mouse button.



Save/restore a system configuration (1)





Save/restore a system configuration (2)

- The complete system settings can be saved on your
 PC via MENU → FILE → EXPORT
- The system configuration file may contain:
 - The current configuration
 - Presets
 - Super presets
 - Recorded Hold signals
 - Intro / data privacy query signals
 - Audio Codec configuration
- To restore the configuration, go to MENU → FILE → IMPORT.
 - On the import dialog, you may define which parts of the backup should be restored.
 - DISABLE DATABASE: The database settings are restored but access to the database is disabled in the configuration.
 - This makes sense if the configured database settings do not fit for a new system because of e.g. a different SQL Server.

- IMPORT ACCONNECT RELATED IP ADDRESSES
 FROM THE FILE: Enable to restore the IP addresses
 for connecting to an audio codec.
- IMPORT THE IP ADDRESSES OF THE THIPPRO FROM THE FILE: Only available when restoring changes the IP Addresses of the THipPro. Enable if you like to restore the IP Address from the backup.
 - After the backup was restored the PC software might lose connection to the THipPro. Enter the new IP address of the THipPro in the PC software under MENU → CONTROL INTERFACE.
- In the SCREENER SOFTWARE, click on MENU → SYSTEM CONFIGURATION with the right mouse button to import or export the system configuration.



Backing up the Local Configuration

- All local settings of LAN Clients and Screener Clients are saved in separate files on each client PC.
- Find the files in the following folders depending on the SETTINGS FOLDER configuration:
 - For all users:
 - %PROGRAMDATA%\AVT\MAGIC THipPro LAN
 - %PROGRAMDATA%\AVT\MAGIC THipPro SCREENER
 - For the current user (roaming)
 - %APPDATA%\ROAMING\AVT\MAGIC THipPro LAN
 - %APPDATA%\ROAMING\AVT\MAGIC THipPro SCREENER
 - For the current user (nonroaming):
 - %APPDATA%\LOCAL\AVT\MAGIC THipPro LAN
 - Via freely configurable network path
 - Temporary files (logfiles, recordings) are saved under:
 - %USERPROFILE%\AVT\MAGIC THipPro LAN
 - %USERPROFILE%\AVT\MAGIC THipPro SCREENER
System information

- In the lower area of the menu important information is displayed
 - Current Client ID of the workplace
 - Studio connected with the Client
 - Your own computer name
 - The system name
 - The SQL Server in use
 - The database in use
 - The PC Software Version
 - The Firmware Version
 - The Streaming Client Version

Information					
System Monitor					
ClientID:	5				
Studio:	Studio 1				
Computer Name:	DT1				
System Name:	TF-THipPro				
SQL Server:	172.20.1.2\SQLEXPRESS				
Database:	CallerTHipPro				
Release/PC Version:	3.720				
Firmware:	3.720				
Streaming Client:	1.400				
Recorder Client:	1.004				
MAGIC ACip3:	2.213				
Exit					



Firmware Download (1)

Close	Call-In		
Select Preset			
File		Firmware Download	
Configuration		ippro.ssw Browse	
Administration	Cancel	Start Cancel	
	Registration		
	System Panel	Progress Start downloading	
[Firmware Download		
1	Set Factory Settings		
Information		THipPro	
Clertfi: 1 State State A		Download successful	
Subort Setup A Computer Network WPETERS-071 System Name: AVT123 SQL Server: wpstem-dt1/sqleupeer Database: Callor/HigPreSQL PC Ventor: 1.610		Close	
Streaming Clent: 1.023			



Firmware Download (2)

- Find updates to the MAGIC THipPro software on our website avt-nbg.de in the DOWNLOAD section under SOFTWARE.
- A new release includes new versions of LAN Client and Screener as well as a new firmware version.
- The firmware file is included in the PC software downloads.
- Update the system by installing the PC software on one client.
- After starting the new version you will be prompted to update the firmware.
 - Confirm and update the firmware.
 - When the update is finished, the unit will restart.
- You may also update the firmware manually via MENU → ADMINISTRATION → FIRMWARE DOWNLOAD.

- The firmware file included in the PC software is automatically loaded.
- Click on BROWSE if you are advised to load a different firmware by AVT support.
- When the THipPro has restarted, install the new PC software on all clients connected to the system.
- In the SCREENER SOFTWARE, find the FIRMWARE DOWNLOAD directly under MENU.



Registration (1)





Registration (2)

- Open ADMINISTRATION → REGISTRATION to check which SOFTWARE options are available in your system.
- ENTER PASSWORD: Adding new licences is done by entering a licence password.
- Contact us if you like to purchase a licence.
 - Attach the FACTORY NUMBER of your unit which is displayed in the REGISTRATION window.
- CREATE TEST LICENCE KEY: If you like to test a feature before buying it, create a test licence key and send it to us along with the factory number of the unit.
 - The test licence will work for a limited time.
 - The timer only counts when the unit is running.
 - The test licence enables all available features.
- In the SCREENER SOFTWARE, find the REGISTRATION directly under MENU.

System Monitor (1)

System M	onitor	- MAGICTHipPro							-	-		Х
Keen	windo	w on ton										
System	alarn	15				System Sta	te					
•	0 L(CA	٩	0 Overheated		System Te	mperatur 51 °C	DS	PLoad: 6	2 %		
ă	0 Ti	me Keeper	ă	0 MAIN EEPROM		C	Fachara Cara					
ŏ	0 Те	emperature Sensor	ō.	0 Display Contrast DA	с	connected	Ember+ Const	umer				
	O FI	ASH EPROM										
•	0 V	схо	•	0 I/O Port								
9	0 D	SP 2 Boot	•	0 DSP 2 Access		Connected	PhonerSets	Audio stream	Status		Versio	'n
0	0 S	lot 1 Access	•	0 Slot 2 Access		IP Transmi	ssion Jitter		Current	Ma	ax. last 6	0 sec
•	0 SI	ot 3 Access	0	0 Module Assembly		OFF	\sim					
•	0 Et	hernet MAC 1	•	0 Ethernet MAC 2		AES67 Rx 9	itreams				Packet	Loss
9	0 D	ANTE Module Access				Axia01	8ch					0
Applicat	ion a	larms				Axia02						0
0	0 A	ES/EBU Input 1	No AE	S signal available		PTP State:	Slave	PTP Mast	er: 172.20.15.2	5		
9	0 A	ES/EBU Input 2	No AE	S signal available		Path Delay	: 279 µsec					
9	0 A	ES/EBU Input 3	No AE	S signal available		TP Audio St	reams					
9	0 A	ES/EBU Input 4	No AE	S signal available			S1-Presenter 1	0	S1-Presente	er 2		
9	0 A	ES67 Rx Stream 1	•	0 AES67 Rx Stream 2		ă	S1-Screener	ă	S2-Presente	er 1		
9	0 A	Cconnect Stream 1	•	0 ACconnect Stream 2		ŏ	S2-Presenter 2	ă	S2-Screener			
9	0 SI	P Registration				õ	Prod 1		Prod 2			
•	O Er	mber+ Consumer 1				<u>o</u>	IP Stream 9		IP Stream 1	0		
Etherne	t stat	te		Abs. data rates		Connected	MAGIC ACin3					
LAN 1	0	0 100 MBit/s, full		TX: 10.3 MBit/s RX: 2	20.0 MBit/s		172.20.40.120	Streat	m 🎱 Alarms	S	vs. Mon.	
LAN 2	۹	0		TX: RX:		ă	172.20.40.120	Stream	m 🎱 Alarms	S	vs. Mon.	5
DANTE	0	0 1 GBit/s, full				Connected	DCa					
						1: Technici	and AN	2. DT2.5CP				
						<u>1. recinici</u>	dilleAin	2. D12.3CK				
						Database				<u>M</u>	aster P(<u> </u>
						•	1: 1/2.20.10.1/	SQLEXPRESS.Phor	IEBOOK		PC 2	
Last Co	unter	Reset: 9/1/2020 10:24:49	AM									
_												
	Alar	m Counter Reset		Audio Interface Monito	r	L	ne State Monitor	,	Close	•		



System Monitor (2)

- Open MENU SYSTEM MONITOR to get an overview of the system status.
- KEEP WINDOW ON TOP: Activate to keep the windows always on top of the screen.
- The status is displayed as text as well as LEDs:
 - • : Alarm is active. There is an error.
 - Alarm is active but not relevant for the current configuration.
 - Status is OK.
- Find alarm counters next to the LEDs which indicate how often the alarm occurred since the Alarm Counter was reset.
- The information is organised in sections:
 - SYSTEM ALARMS: These alarms show the status of the MAGIC THipPro hardware.

- APPLICATION ALARMS: These alarms show the status of the basic functionality of the MAGIC THipPro:
 - AES/EBU Input: The system can detect if there is a valid digital audio signal at the AES inputs. Find more information on the alarm in the right column.
 - AES67 RX STREAM: The built-in AES67 software module cannot receive all configured streams. The status of the DANTE module is not included here.
 - ACCONNECT STREAM: An audio stream from an optional ACip3 audio codec to the MAGIC THipPro is missing.
 - SIP REGISTRATION: At least one of the VoIP lines couldn't register with the SIP server.
 - DHD AUDIO MATRIX: The MAGIC THipPro couldn't connect to a configured DHD core.
 - EMBER+ CONSUMER: The MAGIC THipPro couldn't connect to a configures Ember+ Provider.

System Monitor (3)

- ETHERNET STATE: Displays information on each LAN interface of the MAGIC THipPro:
 - LED: Displays whether the physical connection to the network could be established.
 - SPEED: Displays speed and duplex mode of the network connection. (100MBit/s, full is required)
 - TX/RX: Gross data rates of the interface in send and receive direction. The MAGIC THipPro can handle up to 25 MBit/s in RX direction. If the data rate is higher, check for broadcast or multicast traffic that is reaching the THipPro unintentionally.
 - DANTE: Displays link state, speed and duplex mode of the optional DANTE module.
- SYSTEM STATE: Displays the general system health:
 - SYSTEM TEMPERATURE: Displays the temperature on the main board in °C. It is recommended to keep the temperature below 50°C through suitable cooling. The MAGIC THipPro will raise the TEMPERATURE ALARM when 57 °C are reached. A higher temperature can lead to an undefined operation of the device.
- CONNECTED EMBER+ CONSUMER: Shows which Ember+ Consumers are connected to the MAGIC

THipPro's Ember+ Provider module.

- DHD CORE CONNECTIONS: Show the status of the connections to the configured DHD cores.
- CONNECTED PHONERSETS: Shows the status of connected PhonerSet phones:
 - IP ADDRESS of the PhonerSet.
 - AUDIO STREAM: Status of the audio stream for pretalk.
 - WORKPLACE: The workplace configured in the PhonerSet app.
 - VERSION: Version number of the PhonerSet app installed on the telephone.
- IP TRANSMISSION JITTER: Displays the jitter statistics of a selected VoIP audio stream.
 - LINE: Select a telephone line to monitor it.
 - CURRENT: Displays the current jitter value.
 - MAX LAST 60 SECONDS: Shows the highest jitter value which occurred during the last 60 seconds.

System Monitor (4)

- AES67 RX STREAMS: Displays the status of the builtin AES67 software module.
 - STREAM NAME
 - PACKET LOSS: Number of audio packets lost in the received streams.
 - PTP STATE: Precision Time Protocol. The MAGIC THipPro can only work as SLAVE.
 - PTP MASTER: IP address of the PTP master in the audio network.
 - PATH DELAY: Current delay to the PTP master.
- RAVENNA STATE: Displays the state of the optional Ravenna module.
 - AUDIO ENGINE: Internal state of the Ravenna module for RX and TX. Refer to the Ravenna web interface for more information.
 - STREAMS: State of the configured Rx and Tx streams. Refer to the Ravenna web interface or press SHOW STREAMS for more information.
 - PTP STATE: State of the audio clocks of the Ravenna module. Refer to the Ravenna web interface for more information.

- SHOW STREAMS: Shows an overview of the configured streams and their status.
- IP AUDIO STREAMS: Displays the status of the optional Pretalk Streams.
 - LED: Displays whether the MAGIC THipPro receives a pretalk stream from a PC software client.
 - NAME: Name of the PC software client to which the stream is currently assigned.
- CONNECTED MAGIC ACIP3: Displays the status of connected ACip3 audio codecs using ACconnect.
 - LED: Displays whether the PC software can access the MAGIC ACip3.
 - IP ADDRESS: IP address of the ACip3 used to control it.
 - STREAM: Displays whether the audio stream of the MAGIC ACip3 is reaching the MAGIC THipPro.
 - ALARMS: Displays whether there are any alarms active on the MAGIC ACip3.
 - SYS.MON.: Click to open the System Monitor of the MAGIC ACip3.

System Monitor (5)

- CONNECTED PCS: Displays the PC clients connected to the MAGIC THipPro.
 - NUMBER: Internal port used to connect the PC client.
 - NAME: Client alias.
 - TYPE / PORT
 - LAN: LAN Client
 - SCR: Screener Client.
 - NDC: News Desk Client
 - HYM: MAGIC System Manager.
 - MTC: Temporary access. The PC is not included in one of the CLIENTS / SECURITY lists. The telephone line control is disabled.
 - PORT NUMBER: Type not defined. The PC is not included in one of the CLIENTS / SECURITY lists. The telephone line control is disabled.
 - INT: MAGIC THipPro Intercom Client. (Not allowed)
 - VMS: MAGIC Voice Mail System Client. (Not allowed)

- BOLD: The master PC is printed in bold. It manages access to the SQL phone book database.
- DATABASE: State of the SQL phone book database connection.
 - LED: Shows whether the database is available.
 - NUMBER: Internal port. One for each database.
 - PATH: SQL database path.
 - MASTER PC: Shows which PC is the master PC. The master PC synchronizes access to the database.



Ravenna Streams (1)

Ravenna Stream Monitor - TF-THipPro

Keep window on top

LAN 2

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LAN 1

Warning

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Channel Error

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9..16

17..24

25..32

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	Receive Streams				Transmit Streams				
stream	Enabled	Name	Channel	State	Enabled	Name			
1		Music-1-DHD@AES67.DHDTF.AVTF	78	Stream active and OK		TF-THipPro-Rav-1-8			
2		Music-1/2@AES67.DHDTF.AVTF	36	Stream active and OK		TF-THipPro-Rav-9-16			
3						TF-THipPro-Rav-17-24			
4						TF-THipPro-Rav-25-32			
5) 					
6) 					
7) 					
8)					
9				2					
10				2					
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Ravenna Streams (2)

- Open MENU SYSTEM MONITOR RAVENNA STATE > SHOW STREAMS to get an overview of the configured Ravenna streams.
- KEEP WINDOW ON TOP: Activate to keep the windows always on top of the screen.
- STREAM: The stream number as displayed in the Ravenna web interface.
- RECEIVE STREAMS: Shows the configured Ravenna input streams.
 - ENABLED: Shows whether the input stream is activated in the Ravenna web interface.
 - NAME: The name of the Ravenna stream.
 - CHANNEL: Shows which audio channels the Ravenna module uses to transmit the audio signal to the MAGIC THipPro base board.
 - STATE: Shows whether the stream is currently being received.

- TRANSMIT STREAMS
 - ENABLED: Shows whether the output stream is activated in the Ravenna web interface.
 - NAME: The name of the Ravenna stream.
 - CHANNEL: Shows which Ravenna Tx channels of the MAGIC THipPro are included in that stream.
 - LAN 1 /2, ERROR, WARNING: Shows if there are any problems on any of the LAN interfaces of the Ravenna module. Get more information in the Ravenna web interface.



Audio Interface Monitor (1)





Audio Interface Monitor (2)

- Open MENU SYSTEM MONITOR AUDIO INTERFACE MONITOR to get an overview of the audio interfaces.
- KEEP WINDOW ON TOP: Activate to keep the windows always on top of the screen.
- TEST TONE GENERATOR: Select an audio interface from the drop-down box to generate a sine test signal on the respective audio output.
- Each audio channel of the device is displayed:
 - AUDIO INTERFACE: Name of the audio channel.
 - AES/EBU: Digital audio interfaces at the back of the device.
 - XLR ANALOGUE: Analogue audio interfaces at the back of the device.
 - HANDSET: Handset audio interfaces at the front of the device.
 - IP AUDIO STREAM: Pretalk streams over IP.
 - PHONERSET: PhonerSet audio streams over IP.

- AES67: AES67 audio channels of the AES67 software module.
- DANTE: Audio channels of the Dante hardware module.
- RAVENNA: Audio channels of the Ravenna hardware module.
- INPUT: Audio level of the signal fed to the device.
- OUTPUT: Audio level of the signal Audio level of the signal emitted by the device.



Line State Monitor (1)

Line State Monitor Keep window on top SIP User Main SIP Server Backup SIP Server Collaboration Server # No IP address available 301 Test Registration done successfully Test Not available 1 Test Registration done successfully No IP address available Not available 302 2 Test Registration done successfully No IP address available Not available 303 3 No IP address available 304 Test Registration done successfully Not available Test Registration done successfully No IP address available Not available 305 5 Test Registration done successfully No IP address available Not available 306 307 Test Registration done successfully No IP address available Not available No IP address available Not available 308 Test Registration done successfully Test Registration done successfully No IP address available Not available 309 9 310 Test Registration done successfully No IP address available 10 Not available Test Registration done successfully No IP address available Not available 311 11 No IP address available 312 Test Registration done successfully 12 Test Not available Test Registration done successfully 313 No IP address available 13 Not available 314 Test Registration done successfully No IP address available 14 Not available Test Registration done successfully No IP address available Not available 315 15 316 Test Registration done successfully No IP address available 16 Not available Long-term SIP Monitoring Record SIP Logfile Close

Line State Monitor (2)

- Open MENU SYSTEM MONITOR LINE STATE MONITOR to get an overview of the VoIP telephone lines and the Collaboration Server lines.
- KEEP WINDOW ON TOP: Activate to keep the windows always on top of the screen.
- Each telephone line is displayed in a line of the screen:
 - SIP USER: SIP user name as configured.
 - MAIN SIP SERVER: State of registration at the main SIP server.
 - TEST: Click to start registration. The result is displayed next to the button. The test may take up to 2 minutes.
 - STATE: State of the registration process in plain text.
 - BACKUP SIP SERVER: State of registration at the backup SIP server.
 - TEST: Click to start registration. The result is displayed next to the button. The test may take up to 2 minutes.
 - STATE: State of the registration process in plain text.

- COLLABORATION SERVER: State of the registration of the line at the collaboration server for Microsoft Teams.
 - #: Line number
 - TEST: Click to start registration. The result is displayed next to the button. The test may take up to 2 minutes.
 - STATE: State of the registration process in plain text.



Record SIP Logfile - MAGICTH	_	\times	
Keep window on top			
	Logfile stopped		
SIP User filter:	301		
	Start SIP registering		
Charle La paris a		Chan Landian	
Start Logging		Stop Logging	
View Leefile		Sous Logfile	
view Logrile		Save Lognie	
	Close		
	•		



Record SIP Logfile (2)

- Open MENU SYSTEM MONITOR SIP STATE MONITOR RECORD SIP LOGFILE to save the SIP communication of the MAGIC THipPro to a file.
- KEEP WINDOW ON TOP: Activate to keep the windows always on top of the screen.
- The logfile is stored in the internal flash memory of the device. Since the memory space is limited, the logging should not be active for more than one hour.
- SIP USER FILTER: Enter any string (e.g. the SIP user name) to filter the messages written to the logfile.
- START LOGGING: Click to start recording the SIP messages.
- START SIP REGISTERING: This is used if you like to record the SIP registration process. Click while the logging is active.
- STOP LOGGING: Click to stop recording the SIP messages.

- VIEW LOGFILE: Open the logfile in a text editor on the PC. Available once the logging is stopped.
- SAVE LOGFILE: Click to save the logfile on the PC. Available once the logging is stopped.



Long-term SIP Monitoring (1)

Long-term SIP Monitoring - MAGICTHipPro —							
	Keep window on top						
	l	ong-term SIP Monitoring inactive	e				
	Send log to MASTER PC	Current Master: Technician:LA	٩N				
				_			
	Send log to this PC	View Logfile of this PC	Open Logfile Folder				
	Stop Logaina						
		Close					



Long-term SIP Monitoring (2)

- Open MENU SYSTEM MONITOR SIP STATE MONITOR – LONG-TERM SIP MONITORING to save the SIP communication of the MAGIC THipPro to a file over a long time period.
- KEEP WINDOW ON TOP: Activate to keep the windows always on top of the screen.
- The logfile is stored on the PC. The recording time is limited by the resources of the PC.
- SEND LOG TO MASTER PC: Starts logging. The master PC writes the logfile to its logfile folder as it is configured in its local settings. The current master PC is displayed next to the button.
 - Note: The master PC role is assigned to a different client if the client on the current master PC loses connection to the MAGIC THipPro.

- SEND LOG TO THIS PC: Starts logging. The logfile is stored on the PC where the logging was started.
 - Note: Do not close the Long-term SIP Monitoring windows as this will stop the logging.
- VIEW LOGFILE OF THIS PC: Click to open the Longterm SIP logfile stored on this PC in a text editor.
- OPEN LOGFILE FOLDER: Click to open the logfile folder of this client in the windows explorer.
- STOP LOGGING: Click to stop logging.







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