

IP-INTEGRA Audio Client User Manual

Table of Content

- 1. Product Setup 3
- 2. Log in and Homepage 4
- 3. Homepage 5
- 4. Menu..... 6
 - 4.1 Tools..... 6
 - 4.1.1 Dashboard 6
 - 5.1.2 Accounts 7
 - 5.1.3 Scheduler..... 8
 - 5.1.4 Sounds 10
- 5. Settings 11
 - 6.1 Network Settings..... 11
 - 6.2 Date and Time Settings..... 12
 - 6.3 System Settings 13
- 6. Logs..... 15
- 7. System 15

1. Product Setup

Upon extracting the device from the package, plug in the network cable into **RJ 45 ethernet** port. After device has turned on, it will be scannable by IP-INTEGRA SIP server (See Provisioning Devices section of a FE-INT-SIP(D) User Manual) where you can see an **IP address** that the device has received. Default network setting is DHCP.

To access the web interface, a PC is required, and it must be connected to the same network as SIP server and SIP Audio device. Using the web browser, access the web interface by entering the IP address of a device into the address bar.

The screenshot displays the 'Provisioning Devices' page in the FREUND web interface. The page title is 'Provisioning Devices' with a subtitle 'Overview of all devices'. The breadcrumb trail is 'Home > Config > Provisioning Devices'. The page shows a table of 2 scanned devices. The table has columns for #, Host, Device, Version, Mac Address, IP Address, Provisioning Group, Bind To Extension, and Action. The first device is 'fsa207' (FSA, v1.0.7.2, 02:42:43:59:4c:88, 192.168.1.77) with provisioning group 'IP-AUDIO' and bind to extension 'FE-SPK-IP4A'. The second device is 'fsa202' (FSA, v1.0.7.2, 02:42:2d:22:fc:b6, 192.168.1.105) with provisioning group 'IP-AUDIO' and bind to extension 'FE-SPK-IP5A'. The page also includes a search bar, a 'Show 10 entries' dropdown, and navigation buttons like 'Upgrade All', 'Update All', and 'Scan Now'. The footer shows 'Copyright © 2018 FREUND. All rights reserved.' and 'Version 1.7.12'.

#	Host	Device	Version	Mac Address	IP Address	Provisioning Group	Bind To Extension	Action
1	fsa207	FSA	v1.0.7.2	02:42:43:59:4c:88	192.168.1.77	IP-AUDIO	FE-SPK-IP4A	[Refresh] [Refresh] [Refresh]
2	fsa202	FSA	v1.0.7.2	02:42:2d:22:fc:b6	192.168.1.105	IP-AUDIO	FE-SPK-IP5A	[Refresh] [Refresh] [Refresh]

SIP SERVER WEB INTERFACE SHOWING SCANNED IP-AUDIO CLIENTS

NOTE: If device “Host” name is shown on the list, it means that IP-Client is not licensed.

2. Log in and Homepage

The **IP address** for FREUND AUDIO server is given by the **DHCP**. Upon accessing the web interface, user will be prompted to enter a **username** and **password**. Default values are “**admin**” for both fields.

After clicking the **Submit** button, the **Homepage** will open.



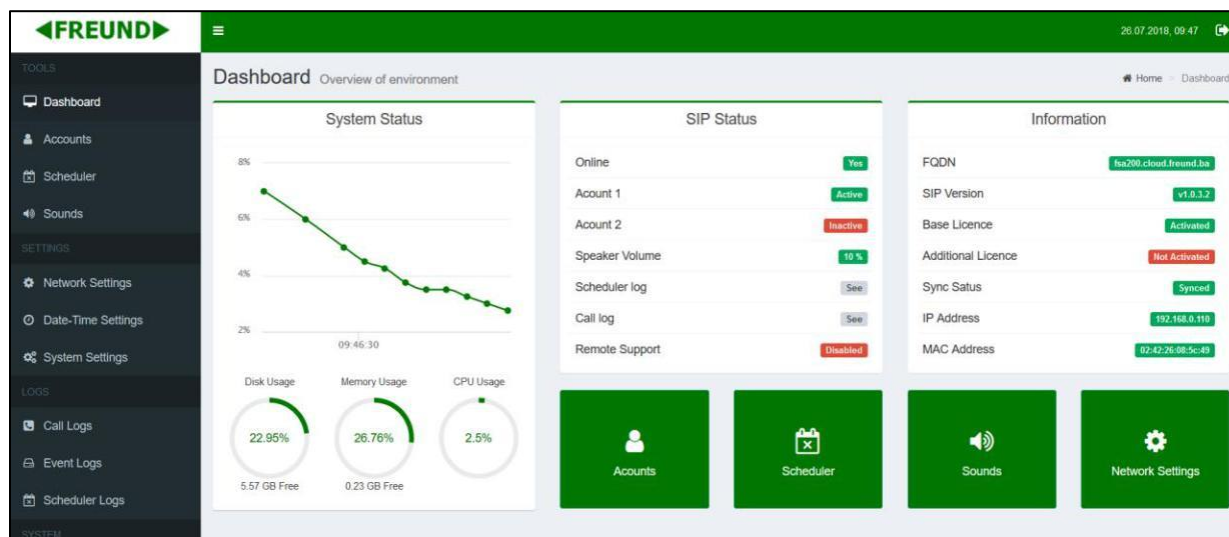
DEVICE LOGIN

3. Homepage

Upon reaching the **Homepage** page, on the left side user will see a **Navigation panel** containing following sections: **Tools**, **Settings**, **Logs**, and **System**. On the right side is the **Dashboard** that provides overview of the whole environment.

This includes **System Status**, **SIP Status**, **Information**, **Event Logs**, and shortcuts to following pages: **Accounts**, **Scheduler**, **Sounds** and **Network Settings**.

Language can be changed in the top-right corner of the page. Available languages are **English** and **Danish**.



HOMEPAGE

4. Menu

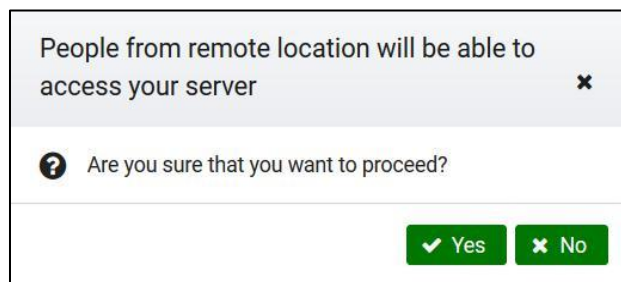
4.1 Tools

Under tools section you can find **Dashboard**, **Accounts**, **Scheduler** and **Sounds**.

4.1.1 Dashboard

Dashboard is the default part of the **Homepage**. Under the SIP status, within the **Dashboard**, is the option **Remote support**. It is disabled by default. To enable it, users need to simply click on the 'Disabled' button and the prompt for enabling it will show.

Remote support will stay enabled until user manually disables it.



REMOTE SUPPORT PROMPT

5.1.2 Accounts

Accounts section within **Tools** allows users to link a device to an extension in SIP server. Prerequisite for this is created extension on SIP server, which gives us **extension number** and **secret** (**Password** is called **Secret** in SIP server). This is thoroughly described in **SIP Server User Manual**.

The screenshot displays the 'Accounts' configuration page. At the top, there is a breadcrumb trail: 'Accounts > Overview of sip accounts' and a navigation link 'Home > Account Settings'. The main content area is titled 'Accounts' and is divided into two columns: 'Account 1' and 'Account 2'.
Account 1:
- **Enabled:** A green checkmark in a box.
- **Name:** A text input field containing 'Speaker IP2'.
- **Authentication Info:**
 - **Username:** A text input field containing '300'.
 - **Password:** A text input field containing 'w6hs27v9'.
- **Server Info:**
 - **Host:** A text input field containing '192.168.200.250'.
 - **Port:** A text input field containing '4060'.
- **Codecs:** A grid of checkboxes:
 - **Gsm:** Not checked (grey box).
 - **Alaw:** Checked (green box with checkmark).
 - **Ulaw:** Checked (green box with checkmark).
 - **G722:** Checked (green box with checkmark).
 - **G729:** Checked (green box with checkmark).
Account 2:
- **Enabled:** A grey box (disabled).
- **Name:** An empty text input field.
- **Authentication Info:**
 - **Username:** An empty text input field.
 - **Password:** An empty text input field.
- **Server Info:**
 - **Host:** An empty text input field.
 - **Port:** A text input field containing '0'.
- **Codecs:** A grid of checkboxes:
 - **Gsm:** Checked (green box with checkmark).
 - **Alaw:** Checked (green box with checkmark).
 - **Ulaw:** Checked (green box with checkmark).
 - **G722:** Checked (green box with checkmark).
 - **G729:** Checked (green box with checkmark).
At the bottom of the page, there is a large green button labeled 'Save Changes'.

SIP CONNECTION SETUP

To set up the device with SIP server, **Username**, **Password**, **Host** and **Port** fields need to be filled in as well as Enabled button must be ticked.

- **Username** – Assigned extension number in SIP server is entered under Username field on the device interface.
- **Password** – Under Password field, we will enter the Secret that can be found under Extension settings in SIP server.
- **Host** – IP Address of a SIP server.
- **Port** – Port over which the communication to SIP server is established.

Also, a list of codecs is displayed which user can tune to suit his needs.

5.1.3 Scheduler

Scheduler allows creation of multiple schedule times for extension or ring groups or even transferring scheduler configuration from **SIP server**. In **Actions tab**, scheduled events with eye icon are transferred from **SIP server**. Their configuration can only be seen by user.

When creating a **new event**, users need to **name** it and give it at least **starting date**. **Expiry date** is optional. Also, users can select which days in a week will the scheduler work.

Clicking on **Add Ring Time** creates an alarm. User has ability to select time. **Bulk Add** allows creating multiple alarm times by entering time, number of rings, and period between rings. Users can select one of the pre-existing sounds or upload their own (check **5.1.4 Sounds** section of this document) to be played on alarm time.

The screenshot shows the 'Schedule Event' form with the following fields and options:

- Name:** Text input field.
- Start Date:** Text input field.
- Expire Date (optional):** Text input field.
- Days:** Selection buttons for Workdays, Weekend, and All. Below are checkboxes for Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and Sunday.
- Ring Times:** Buttons for Add Ring Time, Bulk Add, and Clear Ring Times. A 'Ring Time 1' section contains a time selection input.
- Ring Tone:** A dropdown menu for 'Select Ring Tone' and a 'Number of Repeats' input field.
- Enable:** A checkbox to enable the event.
- Buttons:** 'Cancel' and 'Save Changes' at the bottom.

ADDING NEW SCHEDULER

Section	Function
Name	Enter Bell name
Start Date	Select starting date for the schedule
Expire Date	Select expiry date for the schedule
Days	Select days in a week for the schedule
Ring Times	Allows managing of alarm ring times
Ring Tone	Allows selecting and uploading new ringtones
Repeat ring tone number	Number of instances that ringtone will repeat
Enable	Ticking this option enables the scheduler

Scheduler Overview of scheduled events Home > Scheduler

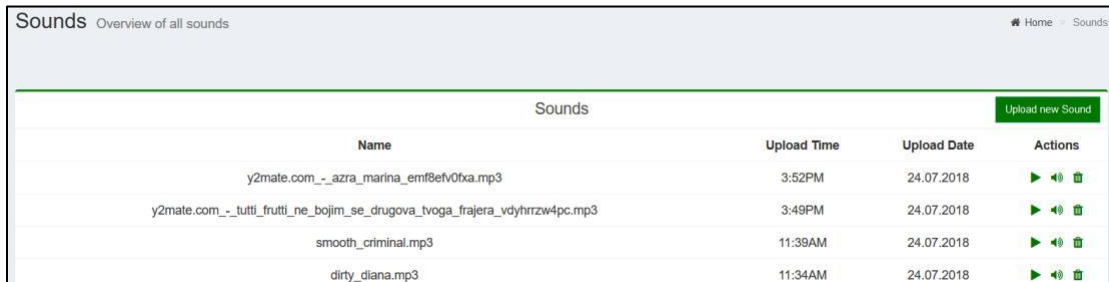
New Event

Name	Ring Tone	Days	Start Date	Status	Actions
test	y2mate.com_-_azra_marina_emf8efv0fxa.mp3	Mo Tu We Th Fr	15-07-2018	Enabled	
Test1	zvono_mono.wav	Mo Tu We Th Fr Sa Su	10-07-2018	Enabled	

SCHEDULER OVERVIEW

5.1.4 Sounds

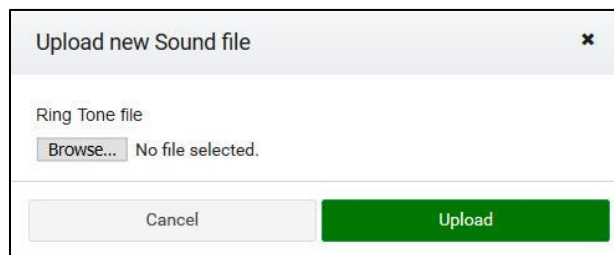
Sounds section allows uploading audio files which can be played and used in a scheduler.



Sounds				Upload new Sound
Name	Upload Time	Upload Date	Actions	
y2mate.com_-_azra_marina_emf8efv0fka.mp3	3:52PM	24.07.2018	▶ 🔊 🗑️	
y2mate.com_-_tutti_fruitti_ne_bojim_se_drugova_tvoga_frajera_vdyhrzw4pc.mp3	3:49PM	24.07.2018	▶ 🔊 🗑️	
smooth_criminal.mp3	11:39AM	24.07.2018	▶ 🔊 🗑️	
dirty_diana.mp3	11:34AM	24.07.2018	▶ 🔊 🗑️	

SOUNDS SECTION

Upon clicking on **Upload new sound**, a window will show allowing to select an audio file for upload.



UPLOAD NEW SOUND FILE

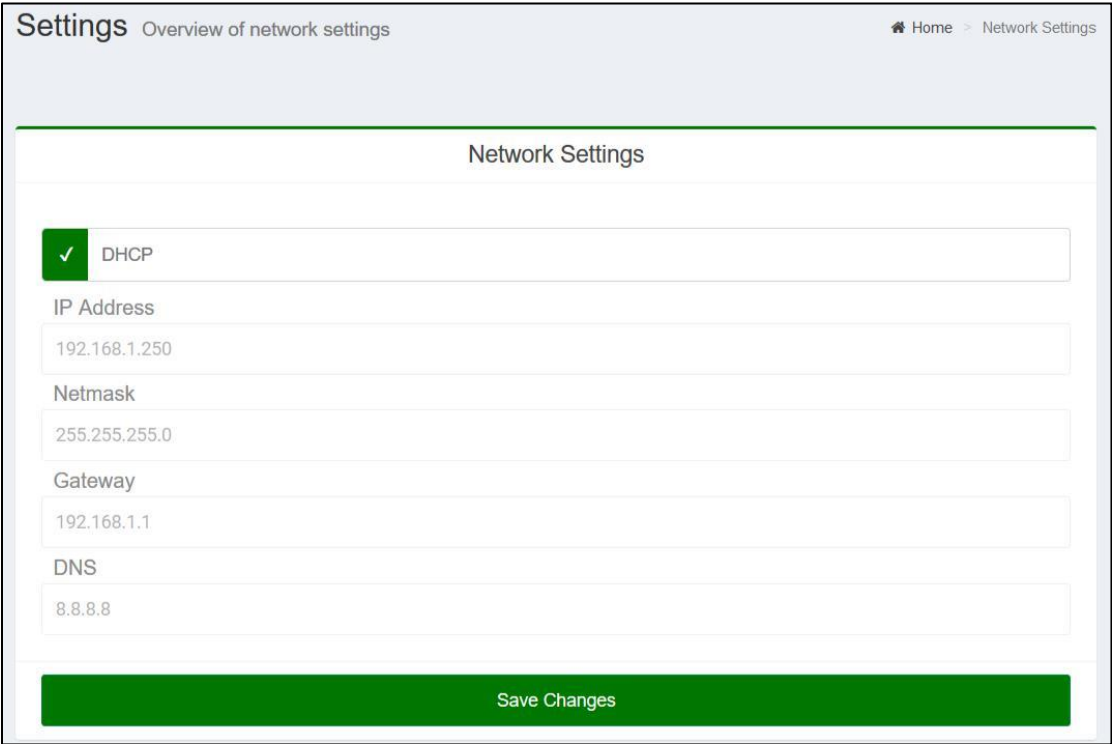
Under **Actions** column, three icons (▶ 🔊 🗑️) are **Play**, **Play a sound on speaker**, and **Delete sound**, respectively.

5. Settings

Under Settings section, user is able to adjust **Network Settings**, **Date and Time Settings**, and **System Settings**.

6.1 Network Settings

Under **Network Settings**, user can adjust **IP Address**, **Netmask**, **Gateway**, and **DNS** of a SIP audio device. **Default settings** are shown in the picture below.



DEFAULT NETWORK SETTINGS OF AN IP-AUDIO CLIENT

6.2 Date and Time Settings

Here, users are able to adjust **date** and **time** as well as designate a **time zone**. **Network Time Protocol (NTP)** is a networking protocol for clock synchronization between computer systems over packet-switched, variable-latency data networks. NTP is intended to synchronize all participating computers to within a few milliseconds of Coordinated Universal Time (UTC).

The screenshot shows a web interface titled "Date Time Settings". It contains several input fields and a dropdown menu. The "Date" field is set to "23.11.2021". The "Time" field is set to "14:15:49". There is a checked checkbox for "NTP". Below it, there are three "NTP Server" fields, all containing "1.europe.pool.ntp.org". At the bottom, there is a dropdown menu for "Europe/Andorra | +01:00" and a green "Save Changes" button.

DATE AND TIME SETTINGS

6.3 System Settings

Here, users are able to configure the **Sound, Voice** and **Microphone volume** by moving sliders left or right, and **Microphone boost** should they need it.

- Options for **Echo cancellation** are located right below the volume sliders.
- **Alarm Sound File** option allows uploading of a custom alarm sound.
- **Mute** – mutes the audio input
- **No audio capture** – disables audio input (same functionality as Mute, but sends no data)
- **Silence Suppression** when enabled, prevents device from transmitting information over network that is under the level of **Silence Threshold**.
- **Silence Threshold** allows user to designate what sound levels are classified as Silence; and shall not be transmitted.
- **Sync Server IP** is the IP address of a SIP server that device is synchronized to.
- **Sync Interval** is the amount of time that passes between device checking for changes on SIP server.
- **Dial Extension** – Upon pressing the button, the device will dial the entered extension number (Only for SMOD and DMOD)
- **Paging Start Sound** if enabled will make a sound upon paging.
- **Paging Stop Sound** if enabled will make a sound when paging has stopped.
- **Play On Button** – Enable or Disable sound file reproduction upon button press*.
- **Randomly Play On Button** – Play a random audio file (If there are files selected).
- **Select Button to Play On** – Decide which button will reproduce a sound file (If more than one button exists on a device).
- **Files To Play On** – Select files to be reproduced.

Users are also able to select a **Paging Start Sound** on this page.

*Available only on FREUND speaker with built-in buttons or audio device with a button switch.

System Settings

<p>Sounds Volume: 17 % <input type="range" value="17"/></p> <p>Microphone Volume: 90 % <input type="range" value="90"/></p>	<p>Voice Volume: 25 % <input type="range" value="25"/></p> <p>Microphone boost 24dB</p>
<p><input checked="" type="checkbox"/> Echo Cancel</p>	
<p>Echo Cancel Fallrate 1.0</p>	<p>Echo Cancel Threshold (100 - 32000) 1000</p>
<p>Alarm Sound File emergency_alarm.mp3</p>	<p>Button 2 DTMF 8</p>
<p><input type="checkbox"/> Mute</p>	<p><input type="checkbox"/> No Audio Capture</p>
<p><input type="checkbox"/> Silence Suppression</p>	<p><input checked="" type="checkbox"/> Autoanswer</p>
<p>Silence Threshold 1000</p>	<p>Dial Extension 100</p>
<p>Sync Server IP</p>	<p>Sync Interval (seconds) 600</p>
<p>Input Device hw:2,0</p>	<p>Output Device Default device</p>
<p><input type="checkbox"/> Paging Start Sound</p>	<p><input type="checkbox"/> Paging Stop Sound</p>
<p>Play On Button <input checked="" type="checkbox"/> Enable Play On Button</p>	<p><input type="checkbox"/> Randomly Play On Button</p>
<p>Select Button to Play On Button 2</p>	<p>Files to Play On Select Files (2 File(s) Selected)</p>

Save Changes

SYSTEM SETTINGS

6. Logs

Logs section contains lists of all **Call Logs**, **Event Logs** and **Scheduler Logs**.

Call Logs					
Show <input type="text" value="10"/> entries	Search: <input type="text"/>				
Date/Time	From	To	Disposition	Duration	
2018-07-26 14:29:06	"asdasd" <565>	ALSA/hw:2,0	ANSWERED	9	
2018-07-26 14:28:49	"asdasd" <565>	ALSA/hw:2,0	ANSWERED	7	
2018-07-26 14:28:27	"asdasd" <565>	ALSA/hw:2,0	ANSWERED	12	
2018-07-26 14:27:57	"asdasd" <565>	ALSA/hw:2,0	ANSWERED	13	
2018-07-26 14:25:29	"asdasd" <565>	ALSA/hw:2,0	ANSWERED	47	
2018-07-26 14:22:40	"asdasd" <565>	ALSA/hw:2,0	ANSWERED	48	
2018-07-26 14:21:47	"asdasd" <565>	ALSA/hw:2,0	ANSWERED	11	
2018-07-26 14:20:24	"asdasd" <565>	ALSA/hw:2,0	ANSWERED	13	
2018-07-26 14:19:59	"asdasd" <565>	ALSA/hw:2,0	ANSWERED	6	
2018-07-26 14:19:19	"asdasd" <565>	ALSA/hw:2,0	ANSWERED	12	

Showing 1 to 10 of 29 entries

Previous 2 3 Next

CALL LOGS

7. System

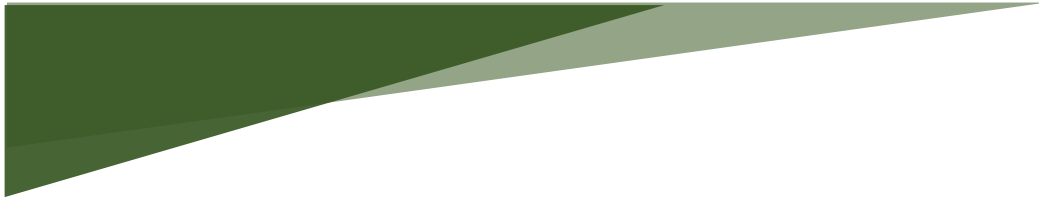
Under System section users have option to perform an **Update**, **Reboot** or **Factory Reset** the device or power it off by clicking on the **Shut Down** button.

Choose file for System Update
✕

System Update File:

No file selected.

SYSTEM UPDATE



Freund Elektronik A/S, in cooperation with our sister company Freund Elektronika D.O.O. Sarajevo, is developing an IP-Based Intercoms, Audio Systems, Access Control and Smart Home solutions.

As a developer, manufacturer, and reseller, we have been self-improving and perfecting ourselves for over 30 years.

In the industry, we negotiate the most advanced and innovative solutions regarding the building communication. Our daily focus is on the development and user friendliness of our high quality and pleasantly designed products.

As a developer and manufacturer of our own IP-INTEGRA system, we have made a top-of-the-line products for Door Telephony, Public Audio, and Access Control solution.

Our development department, together with our partners, has created elegant and robust door phones, SIP-Centrals, Terminals, IP-Speakers, ACC Controllers, and applications with intelligent features using the most advanced technologies when available, and creating new technologies when they are not while keeping it simple for our customers.

