

# Jacoti earCLOUD<sup>®</sup>

## Front-End And Back-End API

### Bidirectional Platform For Medical Data Storage And Management

#### Overview

The Jacoti earCloud<sup>®</sup> platform comprises of a FrontEnd and a Back-End API to give Jacoti technologies a central point of managing as well as synching data created both by users with hearing challenges and audiology experts.

**For Users:** Users can access their Audiogram history as well as their Composite Audiogram. They also have access to statistics and the possibility to disconnect from their Hearing Experts.

**For Experts:** The Expert can perform remote fitting to a specific patient which includes the following:

- Fitting Rule (Half and Third Gain, Custom NAL RP and NAL RP)
- Equalizer for both ears for frequencies from 125hz to 12000hz
- Automatic Gain Control parameters

**Seamless Communication:** Both can contact with Jacoti Support at any time by a contact form that leads to Jacoti Service Desk

#### Key features

- ▶ **Secure web service API:** HTTPS protocol, Authentication tokens used for access, Hash-form password saving.
- ▶ **Global Hearing Identifier:** A Hearing Expert must provide a Professional ID Number as well as a workplace to create an Expert account as well read an Expert manual.
- ▶ **Clinical history:** Audiogram history is securely kept in synch from the Jacoti Apps and Jacoti Inside by Jacoti earCloud<sup>®</sup> for the Expert to consult at any moment.
- ▶ **Easy linking with hearing expert:** The Expert account provides features for remote fitting and the user can accept or not an invitation for linking from an Expert via a notification system.
- ▶ **Synchronized Data Across Devices:** Users effortlessly maintain up-to-date information across all devices for uninterrupted auditory management.

#### FRONT-END

Personal Information Management				
Expert and Personal Dashboard	Expert Signup	Hearing Profiles mgmt	Remote Fitting	Analytics and Statistics

#### BACK-END

Signal Processing			
Realtime Sync	User Data Persistence	User/Expert link	Alerts and messaging

The collected hearing data is anonymised and can be cross-referenced for e-audiology and user studies and serve as data input for, as well as for creating smart algorithms using AI and machine learning.

Jacoti earCloud<sup>®</sup> API works in Jacoti Hearing Center, Jacoti ListenApp, Jacoti Hearing Center Pro and experts can access to their patients' data through the Jacoti earCloud<sup>®</sup> website. Jacoti earCloud<sup>®</sup> API is also part of Jacoti Inside.

#### About Jacoti

Jacoti BV | Hearing Technologies is a science-based company that develops hearing enhancement solutions embeddable in consumer devices. Its flagship product, Jacoti Inside, optimizes audio to each individual hearing requirement from consumer technologies to fully-fledged medical devices.

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