VU™ Voice Recogn

Datasheet

VU

What is it?

It is an interface that allows to use voice recognition as a biometrical authentication factor.

How does it work?

• To sign up, the user records some phrases within the customer's workflow.

• The user sigs up by recording between 1-10 audios of their voice. The exact number of required audios can be set up by the customer.

• The sign-up process will be successful when the comparison between the recordings sent by the user surpass the specific threshold prevoiusly defined by the customer.

• To proceed with the validation, the system processes and compares the sent audio tracks to find a similarity level regarding the original audio recorded by the user, within the use workflow that integrates VU™ Voice Recogn.

• Through the API of VU™ Voice Recogn, the system returns a value to represent the percentage of the similarity, between 0 and 1, where 1 is 100%.
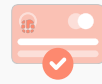
Applications

| Identity vaildation | Makes login easier in interfaces for blind users | Proof of life | Replaces the phone validation for credit card holders. |

Benefits

- Replaces other biometrical factors where and when is requiered.
- Makes it easier to use by elderly people.
- Makes login easier on interfaces for blind people.
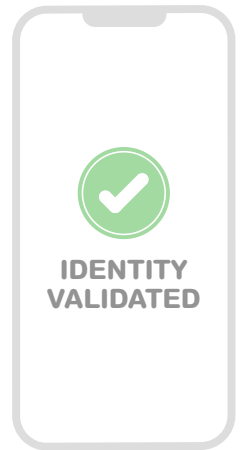- Posibilita la prueba de fe de vida desde lugares remotos.

User process:

WELCOME

SAY:
Use my voice
as a secure
way of access

SAY: COM-
PLETE
NAME

IDENTITY
VALIDATED

Sign up
of new user

Pattern validation

Biometric
authentication (voice)

Return of
results

❚ Standard integration architecture

Creation of biometric registry

User → Begin enrollment → Creates VOICEPRINT

Audio 1
Audio 2
Audio 3
→ VOICEPRINT → Enrollment successful

Makes LOGIN → Biometric authentication → Audio LOGIN → Biometric authentication → Enrollment successful
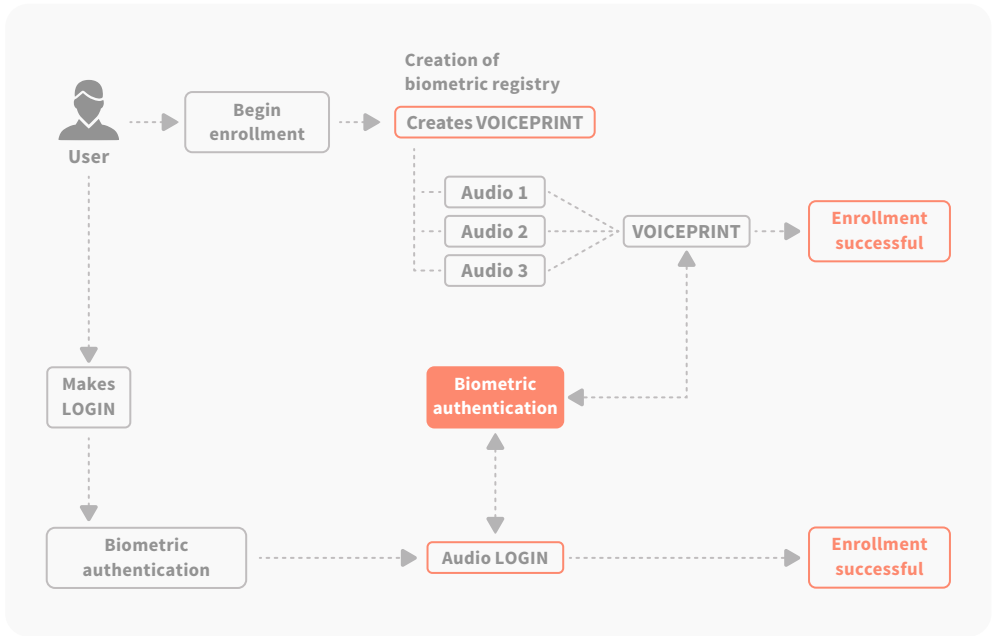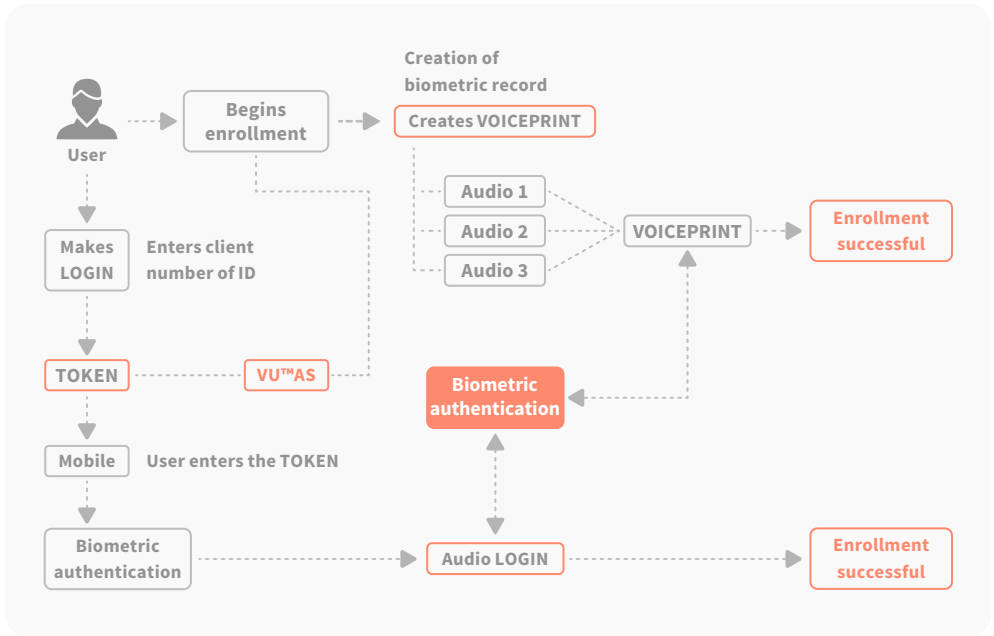
Enrollment

• Request of enrollment with 1-10 audios.

• System generates and stores the voiceprint codified in Base64.

Validation

• The user or ID number is entered through the initial interface within App, IVR, etc. To be developed by the customer.

• Produces user's audio.

• Biometric comparation.

• Validation successful or failed.

Integration architecture + VU™ Token

Enrollment

• The enrollment begins asking user data such as ID number, address, etc.

• The data creates a user on VU™ Application Server (VUAS).

• Enrollment request with 1-10 audios.

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Validation

Considering voice biometrics have a low percentage of repeatability (of around 3%) within a community, VU™ offers the implementation of VU™ Voice Recogn with a double factor of authentication through VU™ Application Server (VUAS).

This way, a combined coverage is achieved before a critical and sensitive process such as the life faith test.

▌ Requirements

• The VU(TM) Voice API admits audio formats codified in Base64.

• Within the workflow, VU(TM) Voice needs to receive the audios in Base64 to process the information.