

# InfoTalk-Verifier

## What is InfoTalk-Verifier?

Like fingerprint, every person's voiceprint is unique. InfoTalk-Verifier is a state-of-the-art speaker authentication software that operates in multiple languages. With the knowledge of a speaker's voiceprint, it verifies the speaker's identity with unparalleled accuracy by requesting the speaker to say certain words, phrases, sentences or digits based on his/her speaking characteristics and unique voiceprint.

Seamlessly integrated with InfoTalk's core speech understanding software, InfoTalk-Verifier can be used in a wide range of vertical industries that requires a high level of security and convenience, like finance, insurance, securities, telecom and e-business.

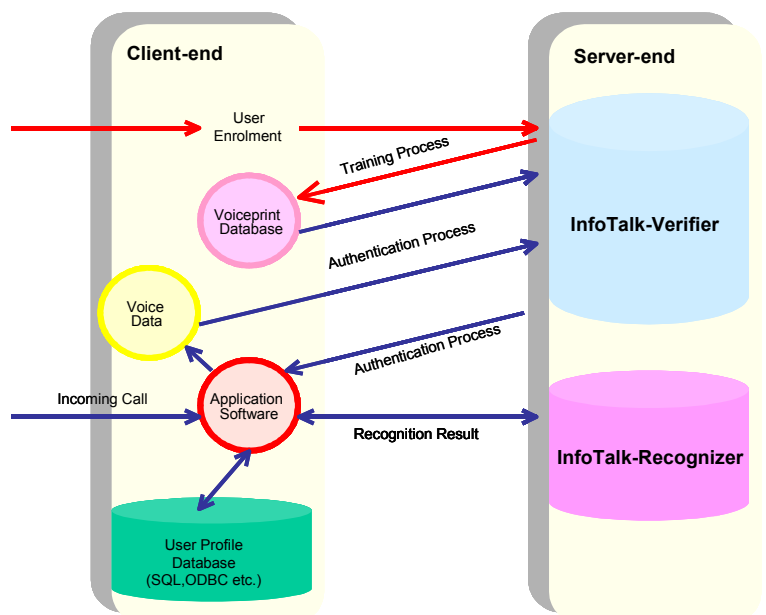
Users can easily access the system to retrieve the required confidential information or perform important transactions anytime, anywhere.

## System Architecture

InfoTalk's speaker authentication system is composed of:

- InfoTalk-Verifier
- InfoTalk-Recognizer
- User Profile Database
- Voiceprint Database

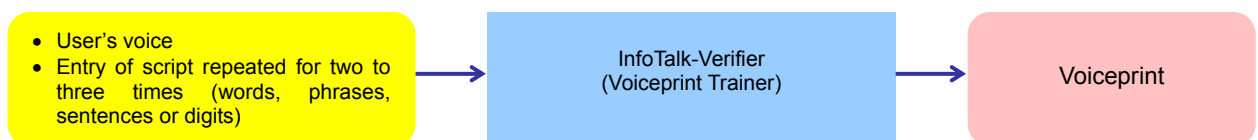
Together with InfoTalk-Recognizer and the complete suite of InfoTalk products, we offer our customers total solutions with supreme performance.



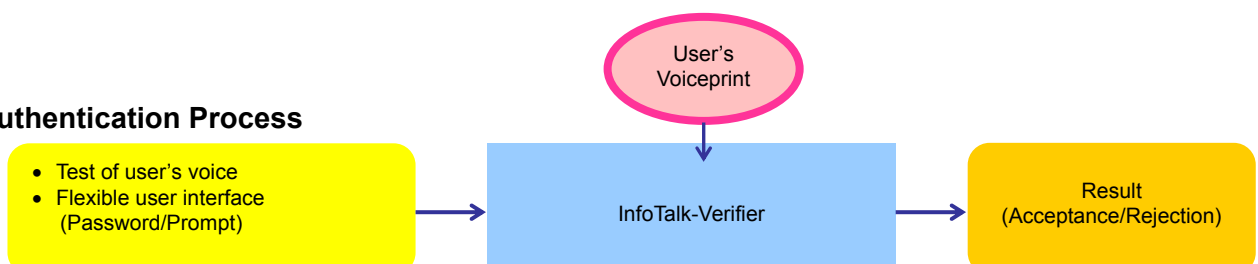
## Workflow

There are two steps in using InfoTalk-Verifier:

### → User Enrolment



### → Authentication Process



## Applications

High reliability, easy and flexible operations open doors for InfoTalk-Verifier to many real world applications where user authentication is required. Application areas include, but not limited to:

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| <ul style="list-style-type: none"><li>• Telephony banking</li><li>• e-Commerce</li><li>• Internet access</li></ul> | <ul style="list-style-type: none"><li>• Security system entrance</li><li>• Safes</li><li>• Cellular phones</li><li>• Smart cards</li><li>• Smart Locks</li></ul> | <ul style="list-style-type: none"><li>• Personal database security</li><li>• Personal access systems</li></ul> |
|--|--|--|

## Product Features

<b>Operations</b>	
→ Simple enrolment	– Users only need to repeat the same or similar words, phrases, sentences or digits for up to three times for the system to capture their voiceprints.
→ Flexible user interface	– System can either request users to say their passwords, or to repeat certain system messages that change randomly during each authentication.
→ Adaptable modes	– Training and authentication can operate in either online mode, prompting the speaker for voice input, or in batch mode with pre-recorded utterances.
→ Adjustable security level	– Security thresholds can be adjusted according to customers' desired security levels of their applications.
<b>Reliability</b>	
→ 99.9% security	– An imposter has less than 0.1% probability of being accepted into the system.
→ High tolerance	– System is highly tolerant of the speakers' voice variations.
→ Script enhanced security	– InfoTalk-Recognizer provides information in addition to voiceprints to InfoTalk-Verifier after understanding the user's utterance content, thereby further enhancing security.
<b>Languages</b>	
→ Multiple languages, including English, Mandarin and Cantonese	
<b>Platforms</b>	
→ Performs robustly, flexibly & is fully scalable	→ Supports a variety of industry standard hardware and platforms
→ Handles high volumes of simultaneous incoming calls	→ Supports various operating systems
→ Provides client-server and non client-server architectures	→ Supports a wide variety of telephone network types
→ Integrates with telephony interface devices from major vendors	

## Product Benefits

<b>Double Security</b>	The system enables users to be identified and authenticated simultaneously, based on their voiceprints which are unique for different individuals.
<b>Maximum Convenience</b>	Users can access the system via any device anytime, anywhere and simply follow the system's instructions, answer the questions according to the system prompts, and their identities will be verified immediately.
<b>Streamlined Operations</b>	Authentication can be performed on different information like names or numbers, and the security level of the system can also be doubled by using the combination of the voiceprint and a password.
<b>Great Cost Savings</b>	A speaker authentication system that runs on InfoTalk-Verifier leverages existing telephone networks and infrastructures, thus leading to cost savings from new hardware or equipment.

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