AGNITIO
Your Voice Biometrics Partner for Homeland Security

Bɾ³ STRATEGIC
BIOMETRIC SPEAKER SPOTTING SYSTEM

BS³ STRATEGIC
- a BS³ Family member -
for Military and Intelligence organizations

BS³ Strategic
a **Speaker Spotting System** designed to
track, filter and **classify** huge amounts of
incoming audio files
- Frontal analysis and processing (effective prioritization) -

BS³ Strategic

BS³ Strategic, based on the precise and ultra-fast BS³ core engine, is designed to **analyze millions of incoming audio files** spotting a list of valuable targets with extremely accurate rates, thus **reducing dramatically** the number of calls required for further intelligence processing and facilitating easy and quick speaker pursuit.

Features:

• **High Speed performance**: BS³ Strategic is able to process up to **1000 hours of audio in a day** (20,000 incoming calls (~3mins) dealing with 500 targets) and execute up to **85,000 matches per second** (fastest scoring time) with a single Core CPU - fully **scalable** as the BS³ Engine can be deployed in a multi-threaded/multi-core environment;

• **Smart load distribution**: BS³ Strategic is able to handle a **multi-server deployment** thus scaling the performance up to millions of audio files per day with monitoring of management of the components;

• **Strong front-end capabilities**: BS³ Strategic has strong front-end capabilities (audio validation, Automatic Voice Activity Detector (AVAD)) to remove artifacts, noises and non-voice events;

• **Interoperability**: BS³ Strategic maintains a full **connectivity** and interoperability with the Master Repository BS³ system where all voice models are stored and managed.

Capabilities:

→ Speaker Identification (SID)
→ Gender Identification (GID)
→ Language Identification (LID)

Use Cases:

→ Speaker spotting of key targets inside a continuous flow of telephone conversations (landline, cellular, VOIP) in near-real time
→ Datamining for large storage repositories to tag or classify individuals for further intelligence processing

Benefits:

→ Reduces dramatically the number of calls in mass voice interception system required for further intelligence processing
→ Facilitates easy and quick speaker pursuit in huge audio data storage repositories

Packaging:

→ BS³ Strategic is delivered as a **JAVA API**[*] easy to integrate in any mass voice interception system and voice mining
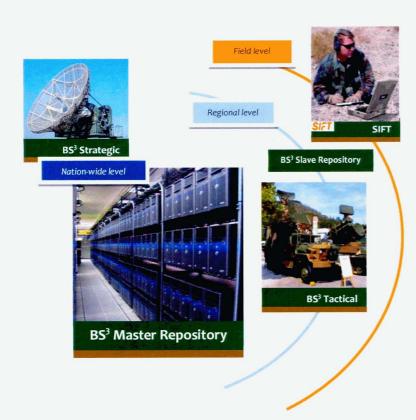
API: Application Programming Interface

BS³ Strategic

Key competitive advantages:

Based on the market leading **BS³ Engine – Text, channel and language independence**

➔ **High speed performance: 1,000 hours** of audio processed **in a day** with a single CPU core (fastest scoring time available);

➔ **Small features and model sizes:** respectively 7kB and 1.8kB (smallest ever used in the marketplace) – allowing up to 1000 times reduction in memory needed;

➔ **High accuracy:** based on the state-of-the-art GMM/JFA voice biometric technology;

➔ **Multi-speaker detection:** up to 2-speakers in the same recording with the fastest and most efficient solution available in the marketplace.

(Learn more in BS³ Engine brochure)

Field level

Regional level

SIFT **SIFT**

BS³ Strategic

Nation-wide level

BS³ Slave Repository

BS³ Tactical

BS³ Master Repository

BS³ Family

The BS³ Family of products for speaker surveillance and management for Military and Intelligence organizations consists of:

• **BS³ Master Repository**, designed to store and search over a large number of Voice Targets;

• **BS³ Strategic**, designed for mass voice interception and voice mining;

• **BS³ Tactical**, designed for tactical voice surveillance;

• **SIFT** (Speaker ID Field Toolkit), designed for agents in the field.

BS³ Family products are **easy to integrate** in all current platforms both in the command and control center and in the field.

BS³ Family allows an **incremental deployment** of all voice surveillance tasks, from tactical to strategic applications, from human voice gathering to electronic sensors, guaranteeing easy information transfer (communication and data exchange), compatibility and scalability.

AGNITIO - Leading Voice Biometric Technology for Homeland Security:

Recent independent tests conducted by International Biometric Group (**IBG**) demonstrated **AGNITIO's superior voice biometric technology capabilities.**

'Agnitio identified the correct voice within the top 2 results 99.02% of the time using 60 seconds of audio in a cross channel environment'

International·Biometric·Group
Research Consulting Integration

AGNITIO's voice biometric consultants are available to provide all the necessary expertise and support to our clients worldwide in order to ensure the best results: consulting services include voice biometrics workshops, advanced training for users and system integrators, best practices (please contact info@agnitio.es).
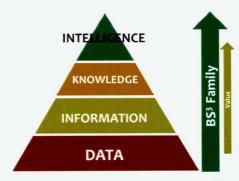

INTELLIGENCE

KNOWLEDGE

INFORMATION

DATA

BS³ Family

Value

Information Pyramid

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