

**HAWK RISK  
PROTECTION**



**Voice Stress Analysis**

**Pre-Employment Screening  
& Fingerprint Identification**



**HAWK RISK PROTECTION**  
OFFERS **CUTTING-EDGE**  
SECURITY SOLUTIONS

1

## Voice Stress Analysis [VSA]

Voice Stress Analysis (VSA) is a technique used to assess the psychological or physiological stress levels of an individual based on their voice patterns and characteristics. It involves analysing the variations in vocal parameters such as pitch, frequency, amplitude, and microtremors in the voice. The underlying principle is that when a person is stressed or experiencing emotional arousal, these changes may be detected in their voice. VSA is often used in certain fields, such as law enforcement or security, as a tool for evaluating truthfulness or detecting deception.

### Aim of Voice Stress Analysis

The aim of a voice stress analysis (VSA) is to assess the psychological or physiological stress levels of an individual through the analysis of their voice patterns. The primary goal is to detect changes or indications of stress or emotional arousal in the person's voice.

This analysis is often used in specific contexts, such as security screenings, criminal investigations, or truth verification assessments, with the intention of evaluating the veracity of statements or identifying potential deception. The aim is to determine if there are patterns in the person's voice that may indicate stress, which could potentially suggest heightened emotional responses associated with deception or the presence of concealed information.

By examining vocal parameters such as pitch, frequency, amplitude, and microtremors, the aim is to identify deviations or irregularities that may be indicative of stress or emotional arousal.

## Why VSA is better than polygraph tests

Voice Stress Analysis (VSA) surpasses polygraph examinations with its superior advantages:

### 1 Non-invasive

VSA relies solely on voice analysis, eliminating physical attachments and examinee discomfort associated with polygraphs.

### 2 Advanced Technology

VSA uses sophisticated algorithms and machine learning for precise measurements and reliable results, surpassing the subjective interpretations of polygraph examiners.

### 3 Accuracy and Reliability

VSA's focused analysis of vocal patterns minimizes false positives or negatives, providing unparalleled accuracy in detecting stress and deception indicators.

### 4 Versatility

VSA extends beyond truth verification, finding applications in pre employment screenings, criminal investigations, and security assessments across industries.

### 5 Cost-effective and Efficient

VSA's streamlined process eliminates the need for complex equipment and lengthy sessions, reducing costs and enabling quicker decision making.

Choose VSA for advanced, accurate, and cost effective credibility assessment. Experience the future of truth verification and deception detection today!

## Organisations we have assisted



Our voice stress analysis services have been instrumental in supporting the investigations conducted by SARS (South African Revenue Services).



The SAPS (South African Police Service) has relied on our voice stress analysis services to strengthen their criminal investigations.



The Tshwane Metro Police have benefited greatly from our voice stress analysis services.



Our voice stress analysis services have made a positive impact on the operations of the Zimbabwe Police.



## Pre-Employment Screening

Pre-employment screening is of paramount importance for organizations as it serves multiple critical purposes. It enables employers to thoroughly assess candidates before making hiring decisions, ensuring they are selecting individuals who meet the necessary qualifications, have a clean background, and align with the organization's values.

### Enhanced Hiring Decisions

Pre-employment screening allows organizations to make informed hiring decisions by thoroughly evaluating candidates' qualifications, experience, and background. This leads to selecting the most suitable candidates for the job.

### Risk Mitigation

By conducting pre-employment screening, companies can identify potential red flags, such as criminal records or falsified information, reducing the risks associated with negligent hiring, workplace incidents, theft, fraud, and other misconduct.

### Safe & Secure Work Environment

Our command center effectively manages alarm systems, promptly verifying and responding to alarm triggers, reducing false alarms, and providing timely communication and coordination with relevant stakeholders.



Hawk Risk Protection takes pride in offering cutting edge, timely solutions that cater to the ever changing requirements of our clients.

Our extensive range of services covers a wide spectrum, including customized reporting and analytics, seamless digital identification, paperless compliance with FICA regulations, online data analytics, and standard credit bureau solutions.

Through the utilization of advanced algorithms and state of the art technology, we provide personalized perspectives, streamline identification processes, ensure adherence to FICA guidelines, extract invaluable insights from data, and provide robust credit risk management support.

Our exclusive tools harness the power of extensive data to optimize operational efficiency, empower data driven decision making, and enable clients to thrive amidst the dynamic landscape of modern business.

## The Hawk Risk Advantage

Our clients, employees, and service providers can rest assured that their engagements with us will consistently uphold the highest standards of integrity.

Our dealings with both internal and external stakeholders are consistently characterized by honesty and transparency.

We cultivate a culture of innovation that entails attentively listening to our workforce, clients, and the market. This enables us to continuously forge ahead with novel products and solutions, while embracing technology and responding to market trends and niches.

We firmly believe in assuming full accountability for our actions. Our team members and management are deeply committed to upholding personal and collective responsibility to ensure the fulfilment of our commitments.

We place value on our employees and actively encourage initiative, fostering an environment conducive to growth and enabling individuals to achieve their own unique goals and objectives.



## Fingerprint Checks

Fingerprint checks offer several benefits in the context of pre-employment screening and security

### 1 Accurate Identification

Fingerprint checks provide a highly reliable method for verifying a person's identity. Each individual's fingerprints are unique, making it an effective way to ensure that the person being screened is who they claim to be. This helps prevent identity fraud and the use of false identities during the hiring process.

### 2 Criminal Record Verification

Fingerprint checks allow for direct comparison with criminal databases, enabling employers to identify any previous criminal history or records associated with the individual. This helps mitigate the risk of hiring individuals with a history of criminal activities, enhancing workplace safety and security.

### 3 Enhanced Screening Precision

Fingerprint checks offer a higher level of precision and accuracy compared to other forms of identification or background checks. They eliminate potential discrepancies or errors that can occur with name based checks, as fingerprints provide a unique and irrefutable marker for identification purposes.

### 4 Legal Compliance

In certain industries or positions, fingerprint checks may be required by law or regulation. Conducting these checks ensures compliance with legal requirements and industry standards, preventing potential legal issues and liabilities.

### 5 Deterrence and Peace of Mind

The presence of fingerprint checks as part of pre-employment screening can act as a deterrent for individuals with a history of criminal behaviour, as they are less likely to apply for positions that require this level of scrutiny. This contributes to creating a safer work environment and provides peace of mind to employers and employees alike.

Overall, fingerprint checks offer a robust and reliable method for verifying identity, detecting criminal records, maintaining compliance, and promoting a secure work environment. By incorporating fingerprint checks into pre-employment screening processes, organizations can make more informed hiring decisions and mitigate risks associated with potential threats or fraudulent activities.





## Get in Touch

**DANIE BOOYENS**  
MANAGING DIRECTOR

+27 71 212 5715

[danie@dcii-hawkrisk.co.za](mailto:danie@dcii-hawkrisk.co.za)

[www.dcii-hawkrisk.co.za](http://www.dcii-hawkrisk.co.za)