International Journal of Law And Criminology

VOLUME Vol.05 Issue09 2025
PAGE NO. 09-13
DOI 10.37547/ijlc/Volume05Issue09-02

Live Scan and Digital Identification: Prospects For Implementation In Comprehensive Service Companies

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Received: 10 July 2025; **Accepted:** 12 August 2025; **Published:** 12 September 2025

Abstract: The article discusses the possibilities of integrating Live technology Scan and digital identification in the activities of integrated service companies (notary, insurance, legal, financial, etc.). The advantages of biometric authentication, reducing fraud risks, accelerating business processes, and increasing customer confidence are analyzed. Key technological and organizational factors for successful implementation are identified. Foreign practical cases are presented.

Keywords: Live Scan, digital identification, biometrics, integrated service companies, authentication, data security.

Introduction: Modern service companies are actively implementing digital technologies to improve security and optimize customer experience. One of the key tools in this area is Live Scan is an advanced digital fingerprint scanning technology [1].

Live Scan allows for the rapid and accurate collection of biometric data, transferring it to centralized databases. This technology significantly outperforms traditional methods based on ink and paper. According to scientific research, data processing time is reduced from several weeks to 24–72 hours, and the digital format significantly reduces the likelihood of errors and image defects [2].

Live Scan is part of a broader concept of biometric identification - automated recognition of an individual based on unique biological characteristics (fingerprints, face, iris) [3]. Biometric identification provides a high level of reliability and continuity of authentication. This is especially important for complex service sectors such as notary, insurance and financial services, where strict data security requirements are critical.

Live Scan and other biometric solutions are part of the Automatic Identification and Data Capture (AIDC) strategy, which combines various technologies (QR codes, RFID, optical character recognition) to instantly and accurately recognize objects and faces.

Live technology Scan, as part of a digital identity strategy, enables service companies to increase customer trust by enhancing security, speeding up processes, and ensuring seamless integration of identity across the customer journey from contracting to access management.

Digital identification is the process of verifying identity in virtual space using electronic means. Unlike traditional methods, it is based on unique biometric or behavioral characteristics, which provides an increased level of security and convenience [4].

Biometric identification is an automated process of recognizing an individual based on unique biological or behavioral characteristics. The main methods include:

- fingerprint scanning (the most common and reliable method);
- face recognition (analysis of structural features of the face to confirm identity);
- iris recognition (using the unique features of the iris);
- voice analysis (identification based on the unique characteristics of the vocal apparatus).

The use of biometric data significantly increases security by minimizing the risk of identity fraud and simplifies identification processes, reducing time and operational costs.

Live Scan is an advanced digital fingerprint scanning technology. Unlike traditional methods (ink on paper), Live Scan allows instant electronic data transfer,

ensuring high speed and accuracy of processing. Live Integration Scan in digital identification systems allows you to create comprehensive solutions with a number of advantages:

1. Multi-level authentication - the ability to combine different identity verification methods to increase security.

2. Convenience for users - reducing identification time and minimizing the need for physical presence.

3. Reduced operating costs - automation of processes reduces the costs of maintenance and data processing.

Live technologies Scan and digital identification in service companies is a strategic step aimed at increasing operational efficiency, ensuring security and improving the quality of customer service. Complex service organizations, including financial institutions, healthcare institutions, transport and tourism companies, can gain significant competitive advantages from the integration of these technologies.

Table 1 - Benefits of implementing Live technologies Scan

Advantage	Description
Speeding up service	Fast verification of customer identity reduces wait times.
Reducing the risk of fraud	High accuracy of biometric identification reduces the likelihood of identity substitution.
Reducing operating costs	Automation of processes allows to reduce costs on personnel and paperwork.
Regulatory Compliance	Compliance with KYC and AML standards increases the trust of customers and regulators.

Despite the significant benefits, the implementation of digital identification technologies comes with a number of significant challenges that require strategic planning and careful management:

1. High initial investment. Implementation of digital identification technologies such as Live Scan requires significant capital expenditures. This includes the acquisition of specialized equipment, the development or purchase of software, and the creation of a reliable IT infrastructure [5].

2. Personnel training. Successful integration of new systems is impossible without qualified personnel. It is necessary to organize advanced training of employees for effective work with new equipment and software, which requires additional time and financial resources [6].

3. Compliance. One of the most critical challenges is compliance with the law. Companies must ensure strict protection of personal data in accordance with local and international regulations (e.g. GDPR) [7]. Failure to do so can result in significant fines and reputational damage.

International experience demonstrates that various countries and organizations successfully integrate digital and biometric identification technologies to improve the security, efficiency and convenience of services.

In Singapore, the NDI project allows more than 4 million citizens to remotely and securely access government services through the SingPass system [8]. The system uses biometric verification with strong anti-counterfeit protection, which provides a high level of security and convenience for users.

Live technology Scan is widely used for digital fingerprint scanning [9]. This significantly speeds up and simplifies the process of background checks for employment and licensing, increasing the accuracy and reliability of information, and reducing the risk of fraud.

In Australia, the Digital app iD allows users to create and verify their identity based on government-issued

documents such as a driver's license [10]. It provides secure and convenient authentication both online and offline, and is actively used by more than 50 organizations across various sectors.

Estonian company Veriff offers solutions for remote identification using video verification and device data analysis [11]. These technologies are used in banking and public transport, which helps to increase security and improve the user experience.

Ethiopia rolls out national Fayda identification system ID , based on biometric data [12]. Its goal is to provide a single and secure way to verify the identity of citizens, which will facilitate greater access to public and private services, including financial ones.

Table 2 – Comparative characteristics of examples of digital identification implementation

Country	Technology	Application	Peculiarities
Singapore	iProov , Toppan Equaria	Access to public services	Biometric verification with protection against counterfeiting
USA	Live Scan	Background check	Digital fingerprint registration
Australia	Digital iD	Online/offline identity verification	Use of government documents
Estonia	Veriffy	Remote identification	Video verification, device data analysis
Ethiopia	Fayda ID	Access to public and private services	Biometric identification system

These examples confirm that digital identification technologies, including Live Scanning and biometrics are an important element in improving the quality and security of service on a global scale.

With the development of digital technologies and the growth of cybersecurity threats, service companies are faced with the need to implement effective digital identification systems. Technologies such as Live Scan and biometric authentication are becoming key tools to ensure security and ease of service. Let's consider the key areas of development of these technologies and their impact on the strategy of service companies:

- moving to passwordless authentication. Since over 80% of security breaches occur due to weak or reused passwords, organizations are actively moving to passwordless authentication. Technologies such as FIDO 2 and device-specific linking significantly increase security and reduce the risk of phishing ;

- The growing importance of identity and access management (IAM). With the increasing use of artificial intelligence and automation, IAM is becoming a critical element. Organizations must integrate IAM into the full lifecycle of their systems, ensuring strict access control and compliance with security principles.

- development of decentralized identification systems. Technologies such as Self - Sovereign Identity (SSI), allow users to control their own digital identities without the involvement of centralized authorities. This significantly increases the level of privacy and data security.

We have developed basic recommendations for the effective implementation of modern identification technologies in service companies:

1. Integration with existing systems. For successful implementation of new technologies, it is important to ensure their compatibility with the existing IT infrastructure, which will minimize costs and speed up the process.

2. Risk assessment and security. Before implementing new technologies, it is necessary to conduct a comprehensive assessment of potential risks and develop strategies to minimize them. This includes the use of modern cryptography and data protection methods.

Table 3 - Comparative characteristics of promising digital identification technologies

Technology

Technology	Advantages	Challenges and risks
Passwordless authentication	Increased security, reduced phishing risks	The need to update infrastructure
Identity Management (IAM)	Centralized access control, compliance with security standards	Difficulty of integration with existing systems
Decentralized Identifiers (SSI)	Increased privacy, user control	Technical and legal uncertainties

Using technologies such as Live Scan , allows for a significant increase in service efficiency by automating and accelerating identification processes. This results in reduced waiting times for customers and optimisation of operational costs. At the same time, the introduction of digital identification helps reduce the risk of fraud, as biometric data provides a high level of reliability and integrity. In addition, these technologies help companies comply with strict regulatory requirements, including anti-money laundering standards set by organisations such as the FATF.

Promising areas of development include passwordless authentication, decentralized identifiers (SSI) and integration of identity and access management (IAM) systems. This comprehensive approach ensures the competitiveness of companies, builds long-term customer trust and promotes sustainable business development.

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