THALES
Building a future we can all trust

Thales
Trusted Digital ID

**Document Readers
for Mobile Network
Operators**

The growing cost of identity fraud

Identity frauds are increasing in most countries, leading to many unpaid bills related to postpaid subscriptions and sponsored mobile devices. Fraudulent identities are also being used to perpetrate unauthorized acts such as unsolicited calls or spam campaigns, generating complaints from genuine customers that can overload customer-care services.

Credit checks or customer scoring can help reduce fraud losses and unauthorized use of mobile subscriptions. However, they are not particularly efficient for groups where historical data is limited, such as young people or newcomers to a country. Even people with a good credit history and score may have their identity used fraudulently, leading to more serious consequences.

Performing identity verification at the point at which a new subscription is sold is the key to ensuring that the prospective customer is not fraudulently using the identity of someone else with a good credit history and score. It also ensures that the identity being used genuinely exists.

Detecting fake or falsified documents is not part of a regular MNO employee's expertise. Dedicated equipment is therefore needed to provide this information quickly and conveniently.
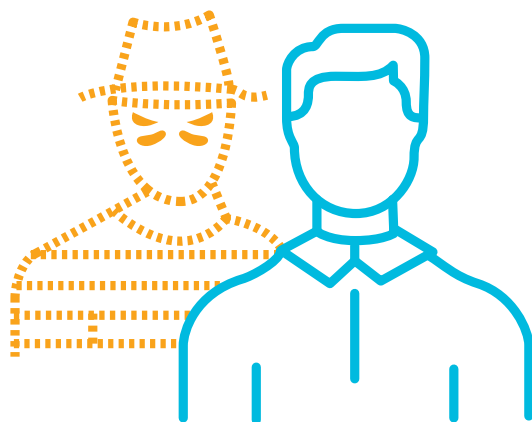
Thales' secure document technologies

As a manufacturer of ID documents for several decades, Thales has strong and long-established experience in document security. Building on this expertise, Thales has developed leading industry solutions that are able to scan and verify the authenticity of identity documents (e.g. identity cards, passports, driving licenses, residence permits, work permits) and confirm that the applicant is the legitimate holder of the document presented.

200+
eGovernment programmes

Thales' core expertise: digital identity

At Thales, we work with some of the world's largest businesses and governments, providing flexible technological solutions that help meet the need for greater security and convenience simultaneously. Our technology serves as the basis for over 150 eGovernment programmes. Digital identity remains at the core of our expertise, as we enable hundreds of our partners to implement advanced authentication and security solutions.

Serving as a trusted partner to MNOs over many years, we have supplied state-of-the-art products and services, compliant with the latest GSMA specifications. We provide SIM cards and manage services to more than 700 million subscribers and have already deployed more than 1000 solutions. Our products comply with the most demanding international standards, such as those defined by the U.S. Department of Commerce, the FBI, Interpol and the American National Standards Institute.

By merging our expertise in digital identity with long-standing partnerships with more than 450 MNOs, we seek to help operators provide the best possible experience to billions of people.

450
MNO
customers

Fight identity fraud with Thales document readers

Thales document readers enable scanning of identity documents at the MNO's point of sale. The document readers can generate three high-resolution images per document, performing quick scans in three light frequencies (white light, ultraviolet and infrared). When scanning a document that is secured with specific inks, Thales document readers enable detection of security features that are only visible under specific light illumination (W, UV, IR), significantly improving the identification of fake documents. For all documents, even those not using specific inks, Thales document readers provide perfect high-resolution images, without any glare, enabling verification in white (visible) light and accurate data extraction.

In the case of electronic documents, Thales readers can also read the content of the embedded chip, and check the related certificate to ensure that the chip content is not corrupted.

Scanning and reading ID documents in such ideal conditions helps to automate the enrolment process, improves data accuracy (by eliminating data entry errors) and secures the process of user identity verification.

Intelligent Document Reader AT10Ki

With built-in high-performance processing and networking, the Thales Intelligent Document Reader AT10Ki inspects, authenticates or captures data from identity and travel documents, quickly and reliably, in cloud and virtual computing environments.

Because the Intelligent "i" series products include an embedded Arm® processor running Linux®, when in networked mode all document processing is carried out on the reader. Ready for the cloud, the Thales AT10Ki uses web-style encrypted JSON messaging to simplify application development, deployment and maintenance.

I The AT10Ki can connect to any mobile device, phone or tablet

I The reader can be used in pool mode, connecting to multiple devices (reader farms can be created)

I A single computer can connect to multiple readers

I Flexible install options

I Lower development and life-time IT costs

I Direct connection with Software as a Service (SaaS) and enterprise back-end applications

Designed for use in demanding border management scenarios, it also serves banking, telecom, hospitality, travel and any other industries where accurate and reliable document and ID verification and reading is needed.

The design of the Thales AT10Ki is based on detailed and exhaustive analysis of field experience and numerous deployed projects. With a new "landing lights" LED feedback arrangement and document retention clip it naturally encourages the correct placement and use of the reader, regardless of whether the user is left or right-handed. First time read rate is therefore maximized, ensuring faster customer processing. Thales has also created a stylish new look that fits into the décor of even the most upmarket customer facing service desks.

Key benefits

- Quickly and simply connect the Thales AT10Ki to your network, tablets, phones and enterprise SaaS applications.

- Create a personal meet and greet experience by accessing the closest document reader from your tablet or mobile device using pools of Thales AT10Ki readers.

- Complete integrated system - including reader, on-board application, OS, device management, network protocols and built-in security - for faster development and deployment.

- Use of modern web interfaces and cloud/virtualized workstations reduces total cost of ownership for IT systems using document readers.

- Whether you deploy mobile, portable or fixed-point workstations, the Wi-Fi, POE/Ethernet and USB3 connections provide installation flexibility.

- Management capabilities provide on-site or off-site provisioning of readers.

- No PC required for network mode – reducing costs.

- Many customizable features, intuitive user LEDs and "anywhere" placement make the reader simple to use and reduces operator stress and fatigue whether in constant or occasional use.

- More accurate document verification and face recognition due to glare/OVD suppression, high quality images and true-color image processing when used with add-on document authentication and live face recognition engines.

10 M Pixels, 24-bit color sensor 700 DPI high-resolution imaging

- Fast document processing, ease of placement and hands-free RFID reading, even on multiple stapled books, enable operators to focus on the passenger. Faster passenger processing is combined with improved detection of travellers of concern.

- Optional support for biometrically enabled travel documents and driving licenses containing contactless integrated circuit chips (eIDs, eDLs and ePassports).

- A unique progress bar with tick/cross indicators makes reading a document intuitive, helping to direct the user and visually displaying the result of the read.

- Redesigned document spine retention clip: holds down new books and works on multiple, stapled books.

- Reads 1D and 2D barcodes from paper and mobile devices.

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