



O&S Security
Solutions



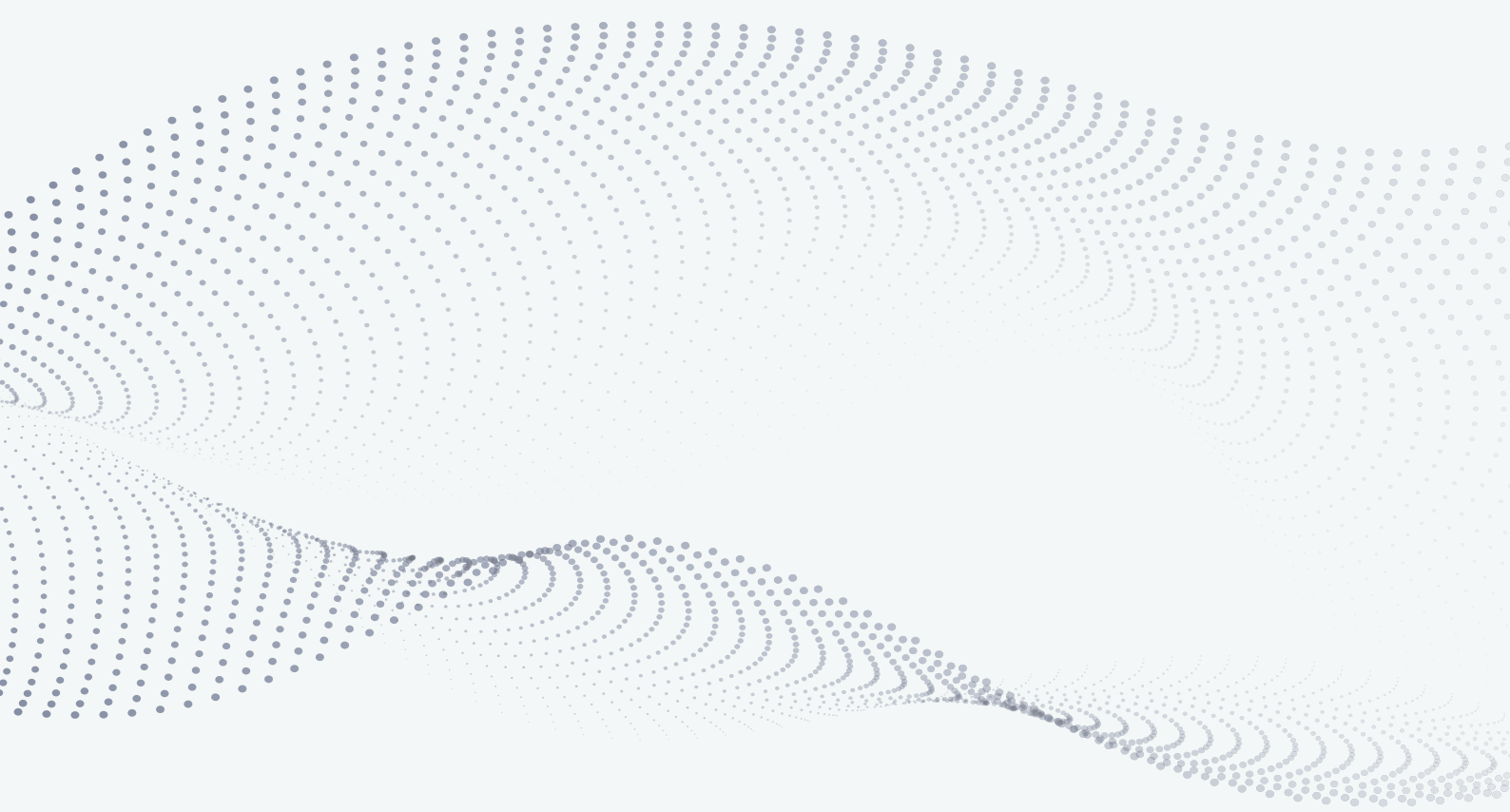


O&S

An Introduction

A Joint Venture between Oumolat Security Printing
and SICPA SA

Established 2023





About Oumolat

Established in 2016, Oumolat stands as the premier high-security specialized printing company in the Middle East, 100% owned by the Central Bank of the UAE. With cutting-edge security systems and strategic proximity to major transportation hubs, including Dubai and Abu Dhabi airports, and global seaports, Oumolat extends its reach across three continents.

Distinguished for collaboration with feature suppliers and expertise in all substrate types, Oumolat ensures the delivery of highly flexible and top-quality banknotes to customers. Our commitment lies in fostering partnerships with customers and technology collaborators in banknote printing, capitalizing on the UAE's business potential, and government support, and leveraging our state-of-the-art facility in Abu Dhabi.

Our primary areas of expertise in banknotes include banknote production, design upgrades, security enhancements, and consultancy services.





About SICPA SA

SICPA, established in 1927 in Switzerland, is a renowned security provider and advisor to governments, banks, and high-security printers worldwide. Operating on five continents with over 3000 employees, SICPA is a market leader in security inks, authentication, identification, traceability, and supply chain solutions.

Each day, SICPA's technology facilitates secure transactions for governments, businesses, and millions of citizens. Their expertise lies in integrating material-based covert features and digital technologies, safeguarding the integrity of currency, personal identity, value documents, e-government services, products, and brands. As credible and dependable partners, SICPA relies on constant innovation to foster a global Economy of Trust. This vision ensures that transactions, interactions, and products in both physical and digital realms are built on protected, unforgeable, and verifiable data.

As a longstanding and trusted partner to central banks worldwide, SICPA leverages extensive expertise in material and digital security innovations. This commitment extends to safeguarding interactions with public and private entities, ensuring consumer protection against counterfeit products.



The Joint Venture About O&S Security Solutions

Oumolat and SICPA entered into a joint venture agreement on the 10th of October, 2023.

The joint venture "O&S Security Solutions" aims to boost the existing collaboration between Oumolat and SICPA to provide high-security printing solutions, enhance digital tax stamps, and reinforce tracking activities by utilizing advanced technologies.

O&S Security Solutions combines Oumolat's ultra-modern and fully integrated security and protection systems with SICPA's high-security inks, authentication, and traceability systems. We aim to help governments gain visibility on hidden problems and have better control over tax declarations.

**AI**

VISION

We aim to create a trust-centric global economy, empowering governments and citizens with advanced, secure, and responsible technology. Rooted in our legacy of equity and transparency, we envision a world built on mutual trust and collaboration.

VALUES



Trust

Upholding integrity, we prioritize unwavering trust in our global business transactions.



Transparency

Openness defines our actions, fostering understanding and strong relationships.



Sustainability

Committed to a century-old legacy, we conduct business responsibly for lasting impact.



Equity

By valuing diversity, we ensure equal opportunities, fostering a rich, inclusive workplace.



Innovation

Pioneering advancements responsibly, we enhance global transactions with cutting-edge technologies.

Solutions & Services Overview

O&S Security Solutions offers a wide range of services, including but not limited to enhance digital tax stamps, secure direct marking for excisable goods, fuel integrity, telecom services revenue monitoring, secure conformity stamps, and secure marking for brand protection. We produce and supply enhanced tax stamps, along with solutions that contribute to the safeguarding of tax collection services.

Here is a brief overview of the services provided.





Digital Tax Stamps

The Digital Tax Stamp has proven to be a valuable asset to any country's economy as it optimizes fiscal revenues on excisable goods. We implement a digital tax stamp management system employed by government authorities for nationwide supply chain control. These stamps offer unique security features and authentication technologies, serving as the most effective means to combat illicit trade practices such as under-declaration, tax evasion, smuggling, counterfeiting, and the distribution of unauthorized goods.

Leveraging unparalleled expertise in safeguarding banknotes worldwide, this contributes extensive knowledge and technology to craft the most secure and efficient tax stamps.

O&S Security Solutions' array of proprietary technologies includes overt (visible), covert (invisible), semi-covert, and forensic-level security features, accompanied by corresponding authentication tools. Complemented by different formats and substrates, our tax stamps and security labels are designed for automated application on various packaging materials and high-speed production lines.



Benefits:

1. Recover lost tax revenue due to illicit trade
2. Reinforce the local economy and promote fair trade
3. Leverage anti-counterfeit technologies to eradicate fraud and illicit trade effectively
4. Monitor the supply chain of excise goods and detect infiltrations by illicit flows
5. Reinforce governance through transparency
6. Foster consumer engagement in the defense of legitimate goods



Secure Direct Marking

Our Direct Product Marking Technology is designed to transparently expose non-compliant behaviors, enabling authorities to enforce robust legal measures and ensure prompt compliance. This cutting-edge marking and traceability system guarantees a clear and transparent supply chain. By employing specialized codes, we securely mark, track, trace, and authenticate products during the production, import, export, and distribution of goods subject to excise tax, thereby reducing occurrences of tax evasion. This fosters trust and assists tax authorities in achieving a secure, fiscal, and financial state. The technology is applicable to various excisable product categories, including soft drinks, juices, energy drinks, mineral water, alcoholic beverages, and tobacco.



Benefits:

1. Secure coding using banknote-grade security inks
2. Different levels of security features
3. Non-intrusive
4. Compatible with the fastest production lines
5. 90,000 products marked per hour
6. Reduce tax revenue loss due to illicit trade/tax evasion



Secure Conformity Seals

O&S's Secure Conformity Solutions guarantee the legitimacy and quality of every product, ensuring adherence to established standards across diverse industries including electronics, home appliances, FMCG, luxury goods, pharmaceuticals, electronics, agrochemicals, and agri-foods.

Our robust security solution surpasses standard authentication, providing significant value for brands with a dedicated, fully controlled, and traceable supply chain.

Through the seamless integration of physical and digital security, leveraging cutting-edge technologies, we streamline enforcement processes. Our technology comprises a machine-readable security system, ensuring optimal authentication and real-time monitoring during field inspections.

Utilizing exclusive markers, authentication devices, and a conformity seal-specific inspection platform, we employ our product marking methods in various ways.



Benefits:

1. Increase the quality and safety of goods in circulation
2. Enable every stakeholder, including consumers to authenticate goods and report non-compliance
3. Reduce unfair competition and increase the competitiveness of legitimate producers and importers
4. Provide real-time visibility about the level of compliance in the market, by product category, economic operator, and geography
5. Eradicate substandard products which harm people and the environment
6. Multi-Level security features mitigating risks of counterfeiting and code duplication



Technical Features: Applicable On Select Solutions

O&S Security Solutions uses several technical features that are applicable to Digital Tax Stamps, Secure Direct Marking and Secure Conformity Seals. These provide comprehensive protection through a range of overt, covert, and connectivity technologies.

OVERT TECHNOLOGIES:



1 — OPALINE®

Colour-shifting effect (green to blue and gold to green)



Front view



Angle view



2 — QUAZAR®

Dynamic visual effect



Front view



Angle view



3 — SICPASTAR®

Colour-shifting effect (turquoise to purple)



Front view



Angle view



4 — Unique serial number

Human readable alphanumeric code

SEMI-COVERT TECHNOLOGIES:



1 — OPALINE®

Inherent polarisation effect



Left



Right



2 — SICPA OASIS®

Polarisation effect with filter



Left



Right



3 — Secure 2D code

Copy-protected by SICPA's proprietary graphical security technology, and readable by any smartphone with SICPA CONNECT's app



4 — Security design

Pattern and guilloche



5 — UV colourless fluorescence

Red



View @366nm

COVERT TECHNOLOGIES:**1 — Invisible SICPADATA®**

Invisible 2D code carrying a unique and encrypted code

**2 — SICPAGUARD®**

Machine readable feature

FORENSIC TECHNOLOGY:**Secure forensic taggant**

Country-specific or product-specific taggants

Connectivity Solutions:

O&S, a pioneer in smart security solutions for a connected world, integrates visible and invisible security features with next-generation smart and connectivity technologies, enabling device-to-device communication and secure data transfer.

Dynamic QR Code: Protected by SICPA's proprietary graphical security technology, this copy-protected code responds to the trend of instant smartphone verification, providing digital protection for products.

Reveo: Integrated into SICPA's security labels, Reveo enables real-time smartphone verification, connecting the physical product with a digital experience to stay ahead of counterfeiters. The multi-layer verification and product identity check protect from revenue losses, reputational damage, and liability claims.



Benefits:

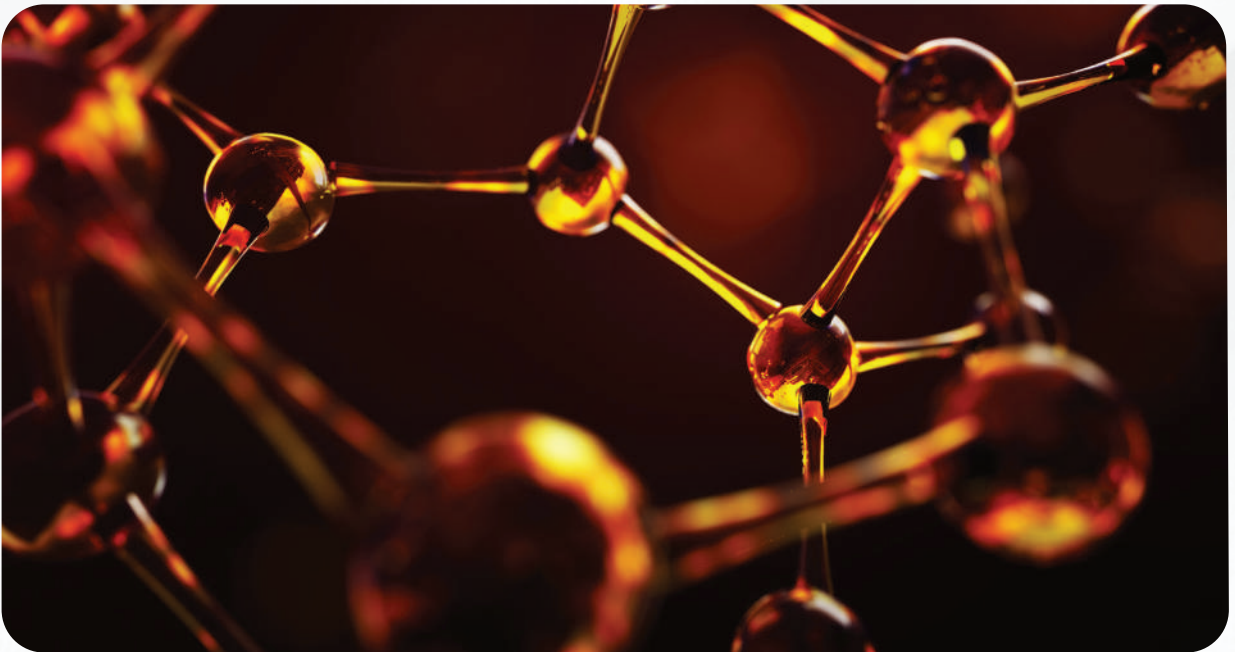
1. Robust and Real-Time Authentication
2. Different ways to apply brand and product protection by overt, covert, and forensic methods
3. Advanced technology to protect brands and products from risks and liabilities of the counterfeit industry
4. Scalable solutions that cover a wide spectrum of sectors and products
5. Multi-Level security features mitigating risks of counterfeiting and code duplication
6. Ensure protection for the brand owners from legal claims





Fuel Integrity Solution

At O&S Security Solutions, we offer a distinct, accurate, and best-in-class solution for fuel marking to preserve the quality of fuel and adhere to fiscal compliance. Our unique solution maintains product integrity in the downstream fuel supply chain through all stages. This technology protects the fuel supply chains from illicit activity and low-quality fuel. Thereby helping governments ensure that the applicable taxes are collected and that the imposed quality standards are maintained. While preventing the fuel from all types of fraud such as illegal refining, diversion, smuggling and adulteration with inferior products, our technology also provides on-spot fuel homogeneity testing with court-admissible test results in just a few minutes.



Benefits:

1. Reduce illicit trade by increasing stakeholder compliance
2. Different levels of security features
3. Increase the quality compliance of fuel products
4. Guaranteed highest level of integrity, enabling transparent and safe hydrocarbon distribution
5. Accurate quantitative detection of illicit trade onsite in 3 to 5 minutes
6. Secure, centralized collection of court admissible test results





Telecom Services Revenue Monitoring Solution

Our Telecom Revenue Monitoring solution helps governments monitor operator revenue, for transparency and accurate tax collection. The solution is modular in nature and can be tailored to requirements.

Operator Revenue Monitoring

Our technology ensures precise calculation of taxes, duties, license fees, and other contributions in operators' declarations. Facilitating near real-time data collection of Call Detail Records (CDRs) across diverse traffic types in national telecommunication networks, this cutting-edge solution serves multiple purposes, including regulatory control, surveillance facilitation, transparency, and compliance.

Mobile Device Monitoring

Our mobile device monitoring technology assists authorities in monitoring and tracking counterfeit mobile devices, preventing significant losses in tax revenue. We are dedicated to providing technology that fosters trust and transparency by offering increased visibility into all active mobile devices within the country. This empowers regulators to enforce compliance and take action against devices that are not type-approved, illegally imported, or reported as lost or stolen.

Mobile Transaction Monitoring

In today's digital landscape, mobile-based transactions are ubiquitous. To ensure compliance, our developed telecom services revenue monitoring solutions establish unique tracking mechanisms. We assist governments in preserving privacy and ensuring transparency in mobile financial transactions. Our state-of-the-art technology detects suspicious activities and monitors non-compliant transactions. We extend our services to track transactions by online businesses, aiding in accurate tax collection and preventing illegal activities.

Benefits:

1. Reduce instances of tax evasion and under declaration
2. Seamless and Quick Implementation
3. Live Revenue Monitoring
4. Modular and Tailored Build
5. Fight the usage of counterfeit and non-homologated mobile phones
6. Sophisticated analytics and business intelligence



O&S

Security Solutions and Sustainability

At O&S, environmental performance stands as a foremost priority. We commit to responsible actions, addressing environmental, social, economic, and governance concerns. To attain our sustainability goals, we continuously innovate, incorporating new generations of security inks and technologies. This encompasses optimizing transport, packaging, and energy-efficient practices, all while prioritizing the safety of our employees, customers, and citizens globally—aligned with the UAE’s vision of sustainability.

Embracing excellence in manufacturing practices, O&S implements robust operational controls for all entities. A fundamental sustainability objective revolves around the optimization of energy usage, bringing positive impacts to the communities we serve.

Our main aim is to coordinate and accelerate sustainability efforts in collaboration with business functions. The team is dedicated to creating a sustainability strategy and roadmap to attain carbon neutrality.

As part of social, cultural, educational, environmental, and scientific initiatives within our community, we engage our employees at O&S Security Solutions. Our commitment to diversity, inclusion, and equal opportunities ensures unbiased and equitable treatment, as well as consistent working conditions for all employees, irrespective of gender, culture, or religion. We are dedicated to eradicating bias and discrimination from all internal processes, fostering a culture of responsibility that encourages trust and collaboration as we tackle challenges and work towards a brighter future.





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