

A SCANTRUST CASE STUDY

Lockcon Integrates ScanTrust Anti-Counterfeiting Solution onto Doping Control Sample Containers for Additional Layer of Security

ScanTrust Solution Allows Accredited Testing Labs to Verify the Authenticity of Bio-samples

LOCKCON

SNAPSHOT

Lockcon AG needed a high-quality solution that would enable their end-users and accredited testing labs to prove the authenticity of entire sample kits, adding an additional layer of security on their tamper-evident doping control sample containers.

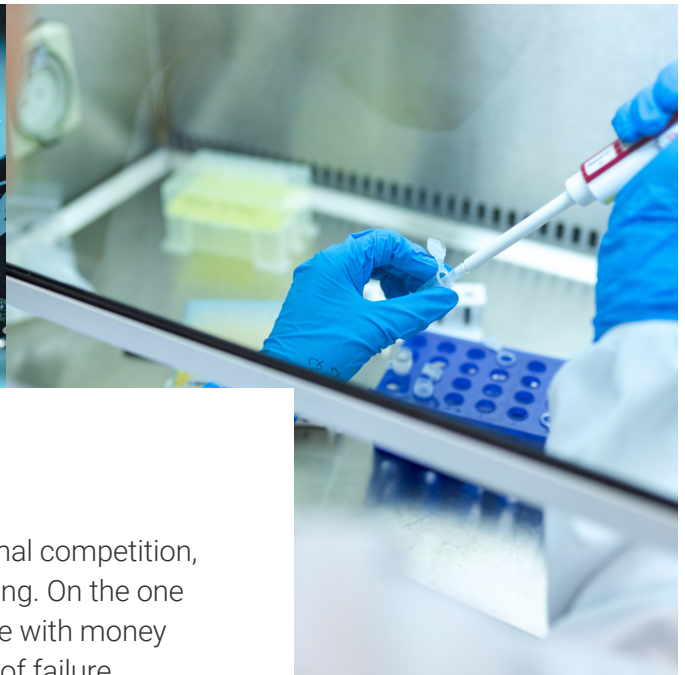
Lockcon worked with the **ScanTrust** team to integrate ScanTrust's patented technology for anti-counterfeiting into their tamper-evident sample containers.

ScanTrust's secure QR codes combined with the secure design of the Lockcon containers has been accepted by accredited anti-doping test labs, bringing a previously impossible level of trust and transparency to the sports world.

THIS CASE STUDY HOSTED BY:



Swiss
Cybersecurity
Start-Up Map



INTRODUCTION

In Olympic and professional sports, as well as in animal competition, the difference between winning and losing is everything. On the one hand lies adulation, the praise from the fans complete with money rewards. On the other hand awaits the abject shame of failure. Considering the stakes, competitors are constantly looking for an edge, an advantage to change the narrative of a lasting legacy. Perhaps the most infamous method to get that edge is the use of performance enhancers or substances deemed illegal by regulatory bodies. This is known as “doping”.

In the sports movement around the world, anti-doping tests are standardized and regulated by the [World Anti-Doping Agency](#) (WADA) and carried out by testing authorities. In animal competitions such as horse or greyhound racing, testing procedures for illegal substances is not as harmonized as it is under WADA, but there are still worldwide standards.

Due to the high stakes of test results, it is critical that the samples are kept securely and monitored for tampering, and it is just as critical to ensure that there are checks in place confirming the authenticity of bio-samples. Among the most important elements maintaining the security of bio-samples is the containers that carry them.

LOCKCON'S CHALLENGE

[Lockcon AG](#) is a Swiss-based company that develops high security, tamper-evident equipment for doping control test kits. These kits are used by organizations all over the world. Lockcon has extensive experience in the sports and anti-doping industry, and is driven by a desire to bring their team's collective know-how to create innovation in a relatively traditional industry.

Lockcon containers stand out because of their unique tamper-evident sealing design, which makes them extremely easy and straightforward to close and keep secure. The containers are also lighter and easier to

handle than traditional products on the market, simplifying logistics for the relevant stakeholders.

But Lockcon wanted to take their tamper-evident design one step further: they wanted to add an additional layer of security that could further prove authenticity and secure their sample container kits.



We were quite convinced we could make something better. We also love to work with the community and were very keen to develop something that gives value back to the market as well as for the athletes, doping control authorities, and laboratories.

— Monika Egli, CEO of Lockcon AG



SEARCHING FOR A SOLUTION

A broad search for digital and physical solutions that could be integrated into their existing containers began. During their search to prove their sample kit's authenticity, Lockcon found [ScanTrust](#) SA, a Swiss-based company with a multi-region presence offering a solution to actively protect against counterfeits via connected packaging.

ScanTrust's patented technology is based on the principle that printing is an imperfect process. Any time a ScanTrust secure graphic is printed, image quality deteriorates irreversibly from the original digital version, so that counterfeiters, or in the case with Lockcon, anyone attempting to falsify samples, are unable to reproduce the secure graphic and match the original image quality.

Serialized, secure QR codes pair information specific to each of the Lockcon sample containers and can be easily scanned and read by smartphones to authenticate the samples. If a falsified sample does make its way into a lab, they will be immediately recognized upon scanning the secure QR codes, flagged in the system, and isolated as an unreliable sample. Even an exchange of the cap or the container can be recognized by the system, due to the paired codes application.



ScanTrust secure QR codes help Lockcon flag suspicious activity and spot compromised testing containers

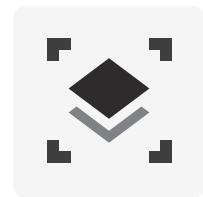
SCANTRUST INTEGRATION

In order to make a final decision on the solution, Lockcon needed to confirm whether adding ScanTrust's secure QR codes made sense for their own operational workflow, and perhaps even more importantly, whether this additional layer of security and the process would be accepted by their end users – the labs conducting the tests and analyses.

The ScanTrust team worked closely with Lockcon and their existing printing partner to find the most efficient way to integrate secure QR codes into the existing printing operations of the labels. To see whether their end



Lockcon containers with ScanTrust secure QR codes



Additional layer
of security



Visibility on
distribution



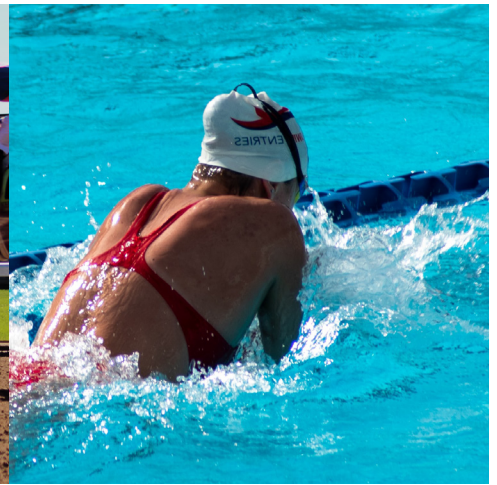
users would accept the concept, Lockcon pitched the idea to major clients and found that there was ready acceptance and approval. This convinced Lockcon that the integration of the secure QR codes would work.

Market feedback - we saw that the solution works; the process, the idea, the security of the whole chain works for all stakeholders. The integrated system is unique in this market and provides the highest level of security.

— Monika Egli, CEO of Lockcon AG



Using ScanTrust's secure QR codes adds an additional layer of security to Lockcon's doping control sample containers, and allows their end users, the third-party accredited labs, to verify the authenticity of the sample kits. Data gained from the scans of the QR codes also gives more visibility on the distribution of the kits, providing the trust and transparency needed in the anti-doping field. The system is also easy to integrate with other platforms and even more security layers, for example storing sample container information on the blockchain.



ABOUT LOCKCON

Lockcon AG is a “Newcomer” with more than 50 years of experience in the market. The provided services are just as transparent as the products.

Rely on our hassle-free system for safe and secure sample collection. Our team of industry specialists understand your needs and offer complete and integrated solutions for your and your organization. By introducing the latest standards and technologies, you can relax knowing that the sample collection process is simple, fast and reliable.

Lockcon AG is based in Wil, Switzerland.

ABOUT SCANTRUST

ScanTrust is a connected packaging platform providing active brand protection, supply chain awareness, and direct consumer engagement services. The ScanTrust solution suite is based on Product Binding, also known as digitalization, a process by which physical products are associated with an online identity. When combined with the unique, patented ScanTrust method for creating secure QR codes, Product Binding is the key to improve and future-proof companies that depend on selling physical products in an increasingly connected world.

ScanTrust SA is headquartered in Lausanne, Switzerland with offices in Amsterdam, Shanghai, Singapore, Bangkok, and Kyiv.

For more information, get in touch with us at: <https://www.scantrust.com/contact-us>

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