

## Senior Management and RNGs (Random Number Generators)

Lottery industry leaders are responsible for enforcing the integrity of their games which depends largely on the reliability and integrity of the RNG system that a lottery uses. With the recent conviction in Iowa and with further discoveries of RNG fraud cases in two other states, senior management is questioning the integrity of their own electronic drawing machines. As experts in lottery RNG systems and suppliers of a RNG system with 100% fraud detection, we propose a solution to RNG integrity and insider fraud detection.

Most of currently deployed electronic drawing systems use multiple levels of security: they are provided by independent suppliers, deployed in protected environments, secured with external and internal checks, certified by outside laboratories, and use independent parties to ensure the integrity of the draw process. While levels of protection differ between suppliers and operators and across different lotteries, all RNG systems share a risk of potential attack: they may be compromised by determined and skilled insiders. The security director of MUSL, providing a RNG draw system, was able to defraud multiple lotteries despite their specific security measures. Another serious concern was that traces of fraud were not found on the respective draw systems. This lack of evidence does not indicate a lack of fraud but a lack of security within the RNG system. In fact, most RNG systems do not offer electronic solutions that fully detect draw fraud. Without being able to detect draw fraud lottery directors cannot ensure the integrity of their games! It is not acceptable to rely entirely on protective security measures, which are vulnerable to insider fraud, when there is a solution available that provides RNG fraud detection and proof of integrity.

The solution, Trusted Draw™ RNG system from Szrek2Solutions, ensures that every lottery draw can be protected. As part of the RNG process, Trusted Draw generates a tamper-proof draw seal to detect all draw fraud or prove draw integrity for every draw. Another independent system, Trusted Audit™, verifies the draw seal and will provide 100% accuracy even when the RNG system is compromised. Trusted Audit detects all RNG fraud and works for current and past draws, even going years back. Coupling Trusted Draw with Trusted Audit offers a state-of-the-art security solution to lotteries by defending them against dishonest insiders. This solution detects draw fraud and deters fraud by catching all attempts to break into the RNG system. The Trusted Draw RNG system has been certified many times for multiple games and has been deployed over twenty times for lotteries worldwide.

We appeal to all lottery leaders: in view of recent fraud discoveries in RNG systems, review your requirements and procurement practices for electronic drawing machines. Unless you require that your RNG solution proves integrity any time, independently from the RNG system, you will always be vulnerable to insider fraud. To protect your lottery and your players, demand RNG systems that offer 100% fraud detection and request verifiable, lasting proof of integrity for all conducted draws.

Find more information about RNG technology on [www.szrek.com](http://www.szrek.com). To contact Szrek2Solutions write to [info@szrek.com](mailto:info@szrek.com) or call us at +1 401-398-0395.