



Ensuring RNG Integrity

Random Number Generators (RNG) play an important role in the lottery industry - they determine winning numbers in draw games, raffles and second chance games, instant win games, Quick Picks, etc. Yet, RNG processes are not always secure. The recent RNG fraud conviction of MUSL Security Director Eddie Tipton demonstrates that it is possible to compromise RNG systems without leaving a trace. Even though MUSL deployed a very secure environment for its drawing system, Tipton was able to 'fix' the draw and was caught only because of the suspicious way in which he tried to cash the winning ticket. One fraud case was brought to justice, but how many other cases remain uncovered?

This recent event reveals a deficiency in the way RNG systems are deployed: even in extremely secure environments, lotteries risk exposure to RNG fraud and lack a comprehensive fraud verification mechanism. In order to mitigate the risk, the industry should require RNG system solutions that detect insider fraud. However, traditional RNG approaches fail to provide such capabilities, and consequently these systems can be compromised.

For the last 11 years Szrek2Solutions has been deploying Trusted Draw™ and Trusted Play™ RNG systems, with integrated proof of RNG integrity validated by Trusted Audit™. Our patented technology proves that winning numbers and draw times are not manipulated. The proof of draw integrity can be obtained immediately after the draw or years later. It is independent of the draw system and tamper-evident, and so if the draw system is compromised the audit system will detect the fraud with 100% accuracy. Trusted Audit may be deployed internally by lotteries or is offered as a service provided by an independent 3rd party. Szrek2Solutions partners with a major ICS vendor to provide this service.

We will be demonstrating our Trusted Draw 360™ and TD Audit products and answering any questions about RNG technology and system deployment at NASPL 2015. Please visit us in our booth #310.

Szrek2Solutions LLC has been providing certified RNG solutions to the lottery industry since 2005. We are a well-established RNG vendor. Our systems have been generating random outcomes for lottery applications without a single failure since the first deployment, over 2 billion audited random numbers ago. Our current clients in the US include: IGT, Texas Lottery, Oregon Lottery, and Georgia Lottery. Our current clients in Europe include Lottomatica Italy, Sisal Italy, Luxembourg Lottery, and Danske Spil.