

Does Security Matter?

Security and integrity of RNG results and generation process are the most critical elements for instant win games and electronic draws.

Any publicized case of defrauding games or draws could have a disastrous effect on the whole industry as existing RNG audit capabilities are limited.

Games and draws are exposed to many security threats. High availability of computer technology combined with lack of audit of RNG results make them susceptible to fraud.

Instant win games are especially vulnerable to computer fraud as winners are determined instantly rather than by a later held draw. Similarly electronic draw outcomes can be manipulated if lacking a robust audit process.

Especially dangerous are the insider attacks because they are the most common and the hardest to detect.



Common Security Threats

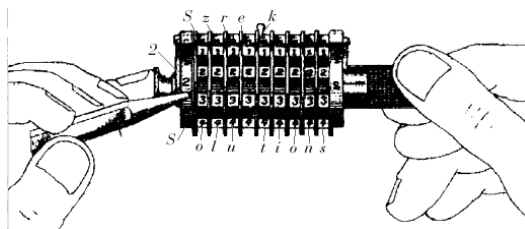
- φ Dishonest personnel.
- φ RNG application program exchanged or overwritten locally or remotely.
- φ Program including hidden features allowing attackers to generate specific numbers.
- φ Programmed with a bias causing some combinations more often, but undetected by statistical analysis.
- φ Predictable outcomes allowing attackers to predetermine the draw/game results.
- φ Algorithms relying on secrecy of data or other elements that can not be verified; they may become exposed and the generation process will be compromised.
- φ Man-in-the-middle attack: attackers can get between a client and a server to gain control over the generation of outcomes.

Szrek2Solutions

is an international company dedicated to providing innovative secure solutions for the gaming industry. Our family of products, Trusted Play™, Trusted Draw™, Trusted Transactions™ and Trusted Monitor™ offer the best random number security and audit needed in today's gaming world.

We provide end-to-end product implementation. Our services include: customization, integration, test, training, product support, and consulting. We have over 50 years of experience in lottery industry in system design and implementation. Our areas of expertise include:

- Game design
- System and data security
- System architecture and design
- Products integration
- Technical evaluation
- Communication consulting
- Requirements gathering



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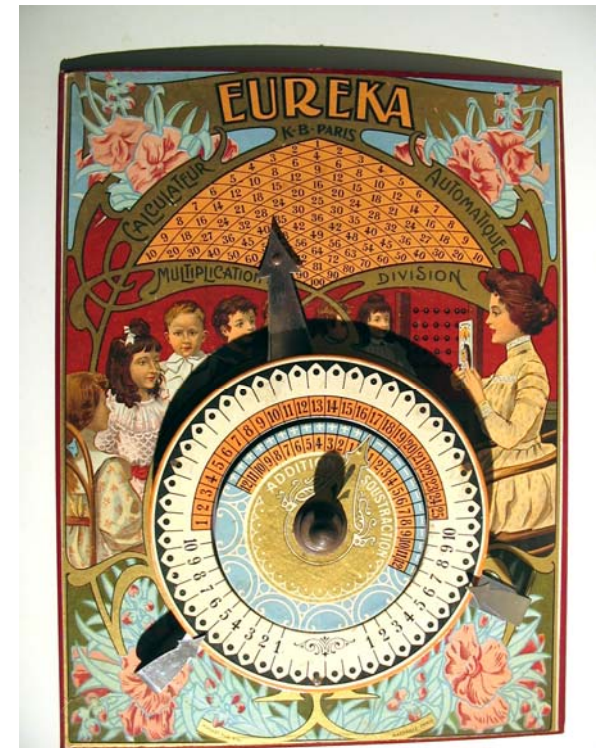
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Trusted Play+™

**Secure Betting,
Draw and Audit
On a Single Platform**



When I play I trust

www.szrek.com



Trusted Play+™

Secure Betting, Draw and Audit

Trusted Play+™ is an integrated secure platform for RNG (Random Numbers Generation) for game outcomes and draw results. Trusted Play Audit protects against fraud - verifies mathematically draw and bet generation integrity, and audits winner selection results.

Trusted Play+ Main Features

- ⇒ RNG outcomes are unpredictable yet can be audited — a unique audit capability based on a patented method RUN+A (Random Unpredictable Numbers with Audit).
- ⇒ Audit verifies generation process and RNG outcomes. Certifies that there was no fraud during the generation process.
- ⇒ Bet integrity and winner selection verification is also available.
- ⇒ Uses modern cryptographic hardware and software to generate and verify random outcomes; Trusted Play+ detects insider attacks even years after the game/draw.
- ⇒ RNG certified in multiple jurisdictions, proving desired statistical properties.
- ⇒ 'Lights-out' operation -fully automated, 24/7/365, high performance.
- ⇒ Reliability, robustness, redundancy.
- ⇒ Easy integration with the game provider.
- ⇒ Single platform supports outcome generation and audit for many games and draws.
- ⇒ Wide variety of games and multiple platforms are supported.

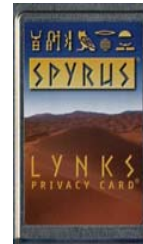
Trusted Play Components

Trusted Play Engine

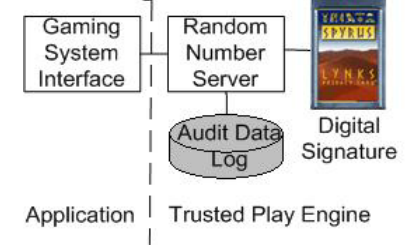
- Tamper evident RNG outcomes generation
- High performance and availability
- Audit data logging
- Time stamping

Cryptographic Hardware Security Module (HSM)

- Digital signing
- Tamper evident, FIPS 140-2 Level 2 Compliant
- High-assurance security mechanisms
- Enhanced firmware for gaming security
- Incorruptible Real Time Clock



Trusted Play Logical Diagram



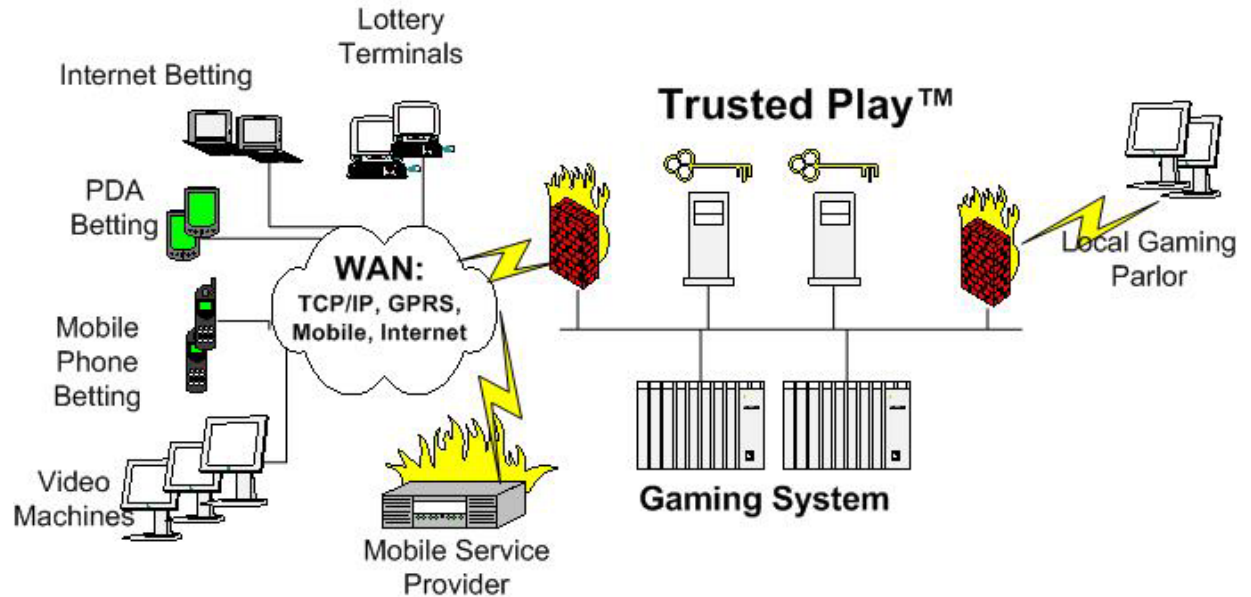
Trusted Play Application

- Standard XML-RPC and FTP file interface
- Works with many host platforms
- Fully automated, 24/7/365
- Supports instant, interactive, probability games, bingo, keno, numbers, lotto, cards, raffle...

Trusted Play Audit System

- Mathematically proves process integrity
- Verifies game and draw outcomes
- Verifies bet file and winner selection integrity
- Generates audit and statistical reports
- Automated audit process, 24/7/365

System Architecture Diagram



Trusted Play+ supports secure betting via lottery terminals, Internet, PDA-s, and mobile phones. Also betting from remote or local video gaming devices are supported.