

## SMART-Tech Presentation

### Trusted Draw™ -

# Secure Electronic Draw System


by Irena Szrek, Szrek2Solutions, Partner

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- ◆ Product Offering
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KENO November 30, 2003 22:11:29

NEXT DRAW IN:  
**0:30**

THE LOTTERY

 Sprint

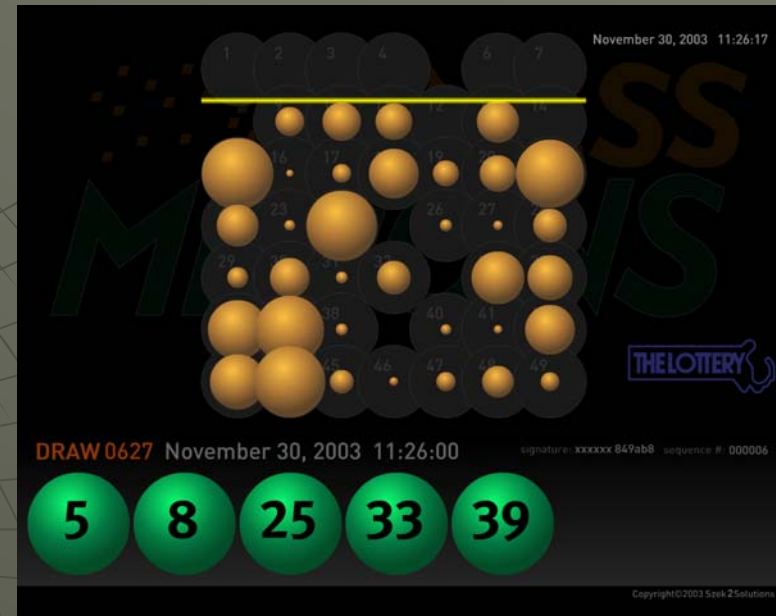
DRAW 1332 November 30, 2003 22:11:00 signature: xxxxxx 617d8f sequence #: 00007

9	12	13	14	16	19	23	24	25	28
37	43	44	47	50	53	54	57	62	74

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## About Us

- ◆ Szrek2Solutions LLC started in 2003
  - Founders each have 20+ years lottery experience
  - Helped GTECH become industry leader
  - Walter Szrek - system architect, senior technical consultant
  - Irena Szrek - software director, project and product manager
- ◆ International gaming product and service company
  - Secure software systems solutions
  - Data security & system integrity
  - Product development and consulting
- ◆ Szrek2Solutions Accomplishments
  - Invented 'Unpredictable Auditable Random Numbers' method – patent pending
  - Introduced Trusted Draw™ tamper evident electronic draw system at NASPL 2003
  - Designed Trusted Play™ secure game data generator for instant on-line games – VLT, Internet



**Lead technology expertise for innovative and secure lottery solutions**

Security of existing computerized drawing machines **is not satisfactory** for today's 'connected' & computer savvy world

## Security Threats

- ◆ Insider attacks account for 80% of fraud
- ◆ Physical security is not sufficient
- ◆ Many methods to circumvent it:
  - Time related attacks
    - ◆ Clock corruption
    - ◆ Earlier drawing
  - Drawn numbers bias
  - Masquerading:
    - ◆ ignoring the results
    - ◆ exchange of the program
    - ◆ exchange of the hardware
    - ◆ connection hijacking
    - ◆ man-in-the-middle
  - Fishing and replay attacks



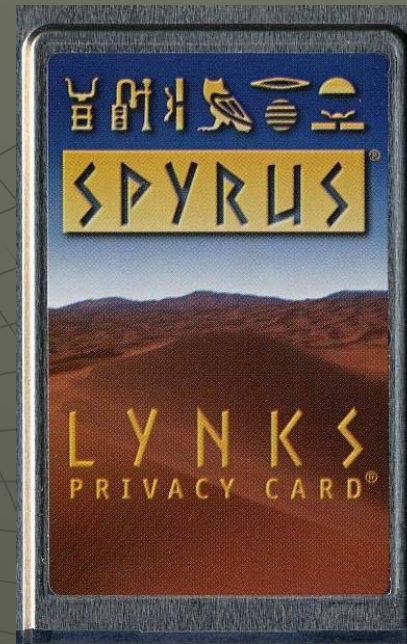
**Current electronic drawing machines do not offer audit of draw numbers, draw time and generation process**



## Trusted Draw™ Secure Solution

Innovative Secure Electronic Drawing System with  
State-of-the-art Bubble© Graphics

- ◆ Random and fair draw results for any game of chance: lotto, keno, numbers, bingo, multi-matrix, cards, dice, ...
- ◆ Tamper proof security and protection against skilled insider attacks – detection of any attack
- ◆ Unpredictable Auditable Random Numbers patent-pending method proves integrity of the drawing system:
  - Draw Audit - draw numbers, time, process
  - Tamper evident cryptographic hardware, digital signatures and time stamping
  - No secret data or algorithm
  - Only standard and proven cryptographic methods



**No other product offers draw security that is nearly as strong**

## Product Offering

### Complete System Implementation, Delivery, Support

- ◆ Stand alone or connected to lottery system
- ◆ Multiple games supported by single Trusted Draw
- ◆ Many games available in the game library
- ◆ Verification system – audit and statistical analysis
- ◆ Customized animation (TV, Web) with sound effects and promotional space
- ◆ Results provided via secure file interface
- ◆ Cryptographic hardware w/lottery security
- ◆ Competitive pricing, dependent on configuration



**Low cost of ownership for secure drawing and audit system**