

# - TP LAW <br> ENFORCEMENT <br> BULLETIN 

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ACQUISITIONS

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## Security of a Multimillion Dollar Lottery

The Massachusetts lottery came into existence in September 1971,
when the legislature establisheú a five member commission and set in snotion the mechanics of what would develop
into a $\$ 200$ million-a-year business by 1981. In the 6 frenzied months follow ing the passage of legislation, 120 em ployees were hired, 4,000 stores
(called sales agents) were enlisted to (called sales agents) were enlisted to
sell tickets, 700 , branch banks were organized to aot as ticket distribution points and dsposisitories, and 4 additional commission members were ap preasurer, who also served as chairman of the commission in accordance with the statute. ${ }^{1}$
Security at the Massachusetts
State Lottery Commission is as much part of the business as the smiles on the faces of the million-dollar winners. Following the appointment of chief of security by the commission, the first
priority was to establish background
investigation procedures for all potenat the outset weyees. Joining the staff investigative were security officers with State, and local law enforcement legen cies and a security guard force to pro vide the necessary physical security hereby providing the basic elements for fraud prevention and protection of assets. An lottery security officers hav
statewide special police powers to make arrests for any criminal offense committed in connection with the oper ation of the lottery, under warrants is
sued by the Massachusetts Department of Public Safety. ${ }^{2}$
Security Measurns
Lottery headquarters is located in Braintree, Mass, a suburb 11 miles south of Boston. All accesses to the building are covered by closed-circuil elevision, with monitors mounted a Additional hall and room cameras
high-security areas are monitored by members of the security guard force which is on duty 24 hours a day, 7 days Empl
Employees and visitors must ob pain identification badges at the secuof the building. The rear and side doors are alarmed and wired to the main security desk. When in use, such as fo
delivery of tickets, the security desk is notified and the alarm shut down. Atter fusiness hours, the alarms remain in force and only the front door provide access.
IT higher risk areas, i.e., computer
poms, ticket distriisution area, and ooms storing drawing equipment, sise curity measures include closed-circuit
television and electronic and sound alarms. Entrance to the computer and distribution rooms is provided by key card access boxes. Each employee ssigned an access card is given an
ndividual code designed to allow that

employee entrance oni.
Although visitors. ation tag at the secuity desk the can proceed into the building coly with accompanied by the employee visitor must also sign a register whe
entering and exiting the building.

## icket Security

Security officials targeted the prevention of counterfeiting or alteration of the top priorities. Basic to the pro tection of the weekly game is the numerical sequencing of the tickets,
which are printed inhouse on highwhich are printed inhouse on high.
quality stock by high-speed printers. A quality stock by high-speed orinters. A possibilities assigns the numbers sequentially to each ticket, thereby preventing the possibility of repetitions. In
order to sell more than a million tickets. the random numbering was repeated in multiple pools identified by letter. Dur ing the first sales period, 9 pools of
nillion tickets were offered to prospec million tickets were offered to prospec weekly drawing, seven persons wo 500,000; the other two possibles were turned to the lottery unsold.
Ticket stock is purchased under eadquarters. The stock is numbered sequentially in order to account for runs, since it is the six-digit number the player will use to match for prizes. To revent tampering, a control number winning number on the computer file in
order for the prize to be paid. in addiion, the name of the store to which the face, as is the drawing date. Weekly game tickets are printed 5 weeks in advance, then are held in a high-security area until the time for distribution. Sales agents at the store level are
allowed to pay prizes up to $\$ 25$. Above alowe to pay prizes up to $\$ 25$. Above
that, the ticket must be returned to oottery headquarters for validation and processing. Each claimed prize is en-
tered into the computer file by a keytered into the computer file by a key-
punch operator and must match the weekly winning number for the drawing date and the control number. Prior to
the weekly drawing, unsold tickets are the weekly drawing, unsold tickets are
returned to headquarters where the playing numbers and control numbers are entered into the computer file, voiding them for contention in that week's drawing.
The lottery

The lottery was in operation only 2 montins when there was an opportunity codes. Following a young man brought a ticket with the winning number to the claim center to collect the $\$ 50,000$ prize. A photogratime, took a picture of the ostensible winner and delivered it to newspapers and wire services that published the story and picture throughout the State. ticket reached lottery headquarters later that day for routine processing, it was immediately apparent that the tickers originaly atered. The serial numwere not those of a winning combination.

Security personnel contacted the claimant, who boldly told them he would pursue the prize money. The proper paperwork was assembled, and
a warrant was sought for the young man's arrest on charges of uttering an

"Security at the Massachusetts State Lottery Commission is as much a part of the business as the smiles on the faces of the million-dollar winners.'
ner. The coating devised could not be ner. The coating devised could not be
candled, and handlers and retailers would not be able to discern if a given ticket was a winner. If the coating was uled ineligible for purchase. A second vital security measure was taken by printing a unique code number on each latex coating, but marked with the warning "Void If Removed." That number was the key in the computer file to the playing numbers on the face of the
ticket. One copy of the master file was ticket. One copy of the master file was
retained by the printer and a second copy was kept by the lottery's validation department.

Lottery personnel oversaw printing of tickets at the plant, and the finished products, packaged, in booklets of 300 tickets each, were shuffled When the packets reached lottery headquarters, a further random sequence was assigned to the delivery system by a second block of lottery
employees, who were not privy to the employees, who were not privy to he anteed that no employee of the print-
ing company or the loter wold ing company or the lottery would be in a position to pinpoint where any of the
high-level winners might be purchased. The top-level instant prize was
$\$ 10,000$. Remaining major rizes, up to

the first prize of $\$ 1,000$ a week for the rest of the winner's life, were distributed through a drawing at the conclusion of the game. As a matter of record, that prize was won by a 24 -year-old
South Boston woman in 1974, who told lottery officials that she planned on living a good long life.
As a step to check possible alter-
ations, it was required that all ations, it was required that all tickets
worth more than $\$ 10$ would be submitted to the lottery for validation. They were subjected to visual scrutiny and matched against the VIRN (Void If Re-
moved Number) to establish that the ticket was indeed a winner on the master file.
The

The Instant Game printing, distribution, and monitoring system worked so smoothly that in the ensuing years, the final drawings were eliminated. In the past 2 years, all prizes are con tained on the tickets, including 10 to
prizes of $\$ 100,000$ each. prizes of $\$ 100,000$ each.

## The Daily Numbers Game

Bringing the lottery into the most competitive aspect of legalized gam-
bling, the Daily Numbers bling, the Daily Numbers Game re-
quired as much preparation as the previous games. The lottery began with the premise that the illegal num
bers purveyor in Massachusetts paid bers purveyor in Massachusetts paid
$\$ 600$ for a $\$ 1$ bet on a three-digit exact $\$ 600$ for a $\$ 1$ bet on a htree-digit exact
win and between $\$ 3,000$ to $\$ 4,000$ for a four-digit exact win. To make the program attractive to bettors, a winning
payout system was devised that would payout system was devised that would
keep the average payoff higher than keep the average payoff higher than
the illegals. A parimutuel payoff was the ilegals. A parimutuel payof was
developed based on 60 percent of the
income for a income for a given night. Calculating
that the most attractive wagers were that the most attracitive wagers were
three exact and any order, or boxed in the parlance of the streets, and four exact, it was determined that an aver-
". . effíoris made to guarantee the integrity of the products over the years has paid off in public confidence and an increasingly successful operation.'
of a four-cigitit exact bet and an average A player of the lottery's Number Game would end up with more money in his pocket, after paying the taxes, operator, where custom demands tha he runner be paid a 10 -percent bonus on wins.
ain objective of fraud was again a main objective in setting up the Num-
bers Game in 1976. The commission determined that a system which could be implemented statewide would have the most appeal at the outset, and was set up to take the daily bets. eithng slips were designed to come $r$ one for the store and one custorer, one. for the store, and one for the
lottery. Validation machines were purchased to stamp the slip with the name of the store, the date, and a sequentia and providing a chronology of the day's business.
The machines were relatively sim ple devices, yet contained several se tampering. Among these is a special ink used for the numbering stamp and a unique bar code within the 12 -digit code itself

To prevent past-posting, a lottery each day would open the validating machine and advance the date with a small penciil-line instrument. A slip the lottery courier, indicating that all the betting tor the day was concluded and any business taken after that point The employee rranged the shess. sequence. From the so-called "end slip" of the prior day to the current one, the only slips the lottery would hono
$\qquad$
ed by the
store.
When the slips from more tha 1,800 stores arrived at lottery headquarters in the evening, they wer placed on microfilm which was store
in a safe. No bet would be honore unless the lottery copy appeared o he microfilm. After the microfilm was stored, all slips would be read by high-
speed optical scanners. All pertinent infed optical scanners. All pertinent
information was picked off the slips and stored on computer tape. Bet and stored on computer tape. Be days played, and the bettor's number Once all. the slips had been read

which would appear to be well within the range of the day's business. The tery copy out of the day's collection, and following the winning number selection, would fill in the three copies
with the winning number and a large $\$ 5$ or $\$ 10$ bet. The bettor's copy would be presented to the lottery for payment, but under the validation process, the
claim would not hold up. Neither the claim would not hold up. Neither the
original nor the microfilm copy would appear. Some claimants pushed the matter to court, and in every case, the lottery s.
judiciary.
In s
In some flagrant cases, lottery security officers noted repeated attempts to perpetrate this fraud, and several However, there has been a continued, albeit decreasing, incidence of at-
tempts to alter the number selection after the daily drawing.

Another phase of security responsbility is to control the possibility that a sales agent may decide to withhold "number" bets from the State lottery, pocket the money, and become the printout of a suspected sales agent may reveal skips in the sequential numbers of the lottery copies of the three-part numbers coupon which are Several investigative techniques may be employed to determine whether the skips are machine connected or attempis to become a partner, thereby setts, the beneficiaries of the lotter profits. A weekly printout discloses the identity of every agent who had any missing silips on any day of the prio
week. A standard service call will determine if the machine has malfunctioned. Replacement of the tape in the

The unique coding device preminal and does not interaction with another terminal. The store owner may key in a special program an any time during the billiness up to the second information on the number of wagers made and the total dollar value. It is simple then for the
owner to match that information owner to match that information
against his receipts to prevent instore agains.
fraud.

Each terminal is monitored at lottery headquarters, and repairmen are dispatunction.
At present there are nearly 500 terminals in operation throughout the State, and plans call for 1,000 when
the program is fully implemented. With the Daily Numbers Game almost completely automated and the weekly Big Money Game tickets sold from the ter-
minals under a new program, some of the burden of external security will be shifted to internal security-established procedures which monitor the computer personnel and programs.
In all, we are confident that the efforts made to guarantee the integrity of the products over the years has paid off in public confidence and an increas ingly successful operation. Securit
has been the hallmark of this business which has grown from $\$ 56$ million in 1972 to $\$ 250$ million in 1981.




