



**GTECH**<sup>®</sup>  
Architects of Gaming

**CASE STUDY:  
lottery machines**

**TURKISH LOTTERY AGENTS MOVE TO 3G MOBILE WIRELESS**



Milli Piyango maintains billions of transactions every year; manages more than five thousand lottery outlets right throughout Turkey, Milli Piyango's 2008 net profit is \$388.2 million



GTECH is a leading gaming technology and services company, providing innovative technology, creative content and superior service delivery merged with Lottomatica S.p.A. Its is one of the world's largest commercial lottery operators and a market leader in gaming industry.



SPINTEK with over 17 years of experience is successfully situated on local Turkish market as a partner that provides different network services to its Multinational Costumers.



SPINTEK's affiliate, **RICON Technologies**, manufactures wireless data transmission and control products, applications for various enterprise and corporate organizations.



**CHALLENGE**

Milli Piyango's previous network was based on IP ADSL with over five thousand lotto terminal distributed right throughout Turkey. The efficiency of the system was not optimal, with slow transaction speeds on a network that had limited scalability. In order to overcome the above limitations the system required to be migrated to an IP network. The previous network relied on ADSL to provide remote connectivity to the network, quite a large number of remote locations where lacking ADSL coverage. Therefore other complimentary technologies where required. The move to 3G wireless mobile technologies as a suitable alternative to its global coverage, which provided reduced cost of ownership as well as simplified provisioning procedures and costs compared to other wireless candidates. The 3G mobile wireless routers needed to:

- fit inside the cabinet,
- provide a safety mechanism to avoid unintentional SIM card manipulations,
- support external magnetic antennas,
- guarantee security and privacy in all the transactions,
- remote management software and custom scripting

**EQUIPMENT USED**



- up to 21Mbps downlink speed
- dual SIM capabilities
- Ethernet 10/100, USB (optional)
- RS-232 transparent communication
- external antenna
- slim, sturdy design
- secure and SIM protected
- data transmission
- ultra security – VPN support
- persistent network connectivity
- NAT, DMZ host, DNS proxy, DynDNS, VPN, Ipsec, NTP, DHCP, imcp , etc.
- up to 21Mbps downlink speed
- friendly installation
- extremely easy to use and configure



**RICON M2M Remote Terminal Management Platform** provides full control of multiply 3G routers for diagnostics and maintenance of all the mobile devices on the network.



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**RESULT**

RICON's 3G wireless mobile routers compact size optimized the placement of the terminal and router within a single system. The router connected to the terminal with via a 9 pin serial port interface. The antenna used for the RICON 3G wireless mobile router was able to be placed externally for optimal maximum signal strength. The routers dual SIM's are securely protected within the router making the dual SIM's mechanically secure from any type of tempering or manipulation. Further to this an end-to-end encrypted IPSec VPN tunnel was established between RICON's wireless 3G router and the centralized data processing center, allowing seamless integration of remote terminals and **RICON M2M Remote Terminal Management Platform**.

In brief RICON and GTECH fully accomplished the requirements set down by Milli Piyango and the specific 3G carriers, to offer high quality service in the operation of Milli Piyango's lotto terminals. A total of five thousand stand-alone lotto terminals rely on RICON 3G wireless technologies. The fact is that Milli Piyango chooses RICON technology in there 3G remote wireless terminal operations.

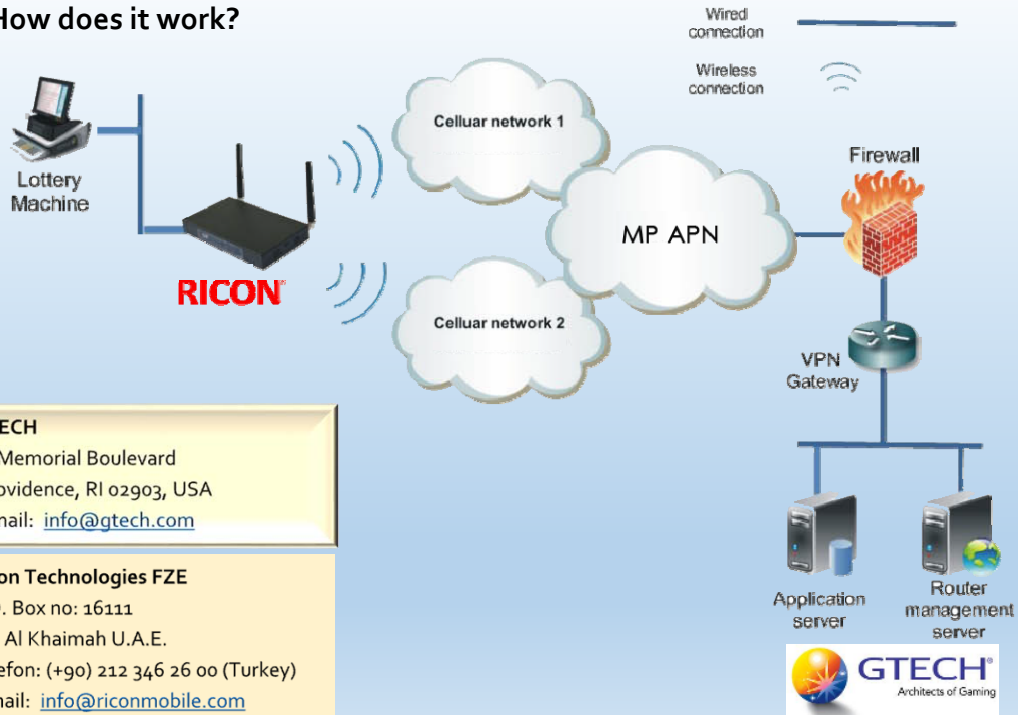
Milli Piyango keeps ordering RICON routers and GTECH terminals whenever they need to deploy 3G remote wireless terminal.

**RICON M2M Remote Terminal Management Platform** working with RICON S9921 3G router and S9931 DSL router is monitoring connectivity of network, and also controlling devices remotely. It provides:



- detailed data stream,
- live reports,
- remote configuration,
- setting customized SLA terms,
- SLA based live alarms,
- batch remote configuration,
- scheduled remote configuration,
- scheduled remote firmware upgrade/downgrade,
- touchless installation,
- mutual backup (Dual SIM),
- live connectivity information.

**How does it work?**



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