



**VirtuoZino™**

## gambling in confidence everywhere...

*VirtuoZino* is a complete solution enabling telecom operators to provide value-added gaming services to their customers. The solution includes an application which runs on the subscriber's SIM card as well as the back-end software for the "over-the-air" server.

Bantry Technologies has developed a complete set of betting games from lottery games to casino games, i.e. scratch card games and Black Jack.

Stakes and winnings are managed through a "token" manager residing within the SIM card and which allows the subscriber to win free minutes of airtime. A bet is placed at the beginning of the game, debited from the player's virtual token purse. The earnings or loses are credited or debited at the end of a game in accordance to the player's results. Re-load and un-load operations are managed in a secure manner by the back-end server, which interacts with the telecom operator's authorisation and billing system.

Even though the application does not manage real money (the user doesn't win money but tokens), a robust secure architecture has been designed for *VirtuoZino* because the game generates benefits for the user. Attackers could be tempted to try and gain access over the system.

*VirtuoZino* ensures protection of the token re-load and un-load operations based on signature verification. The back-end server is the system authority and manages a master key from which a private key for each subscriber is derived.

The back-end server is then able to exchange information in a secure manner without any key repository (the subscriber's key is re-computed by the server when necessary). This guarantees a fully secure but easily deployable architecture.

**A  
Complete  
Solution  
for  
Mobile  
Gaming**

**Going  
for  
the  
Casino  
Thrill  
in  
Total  
Security**

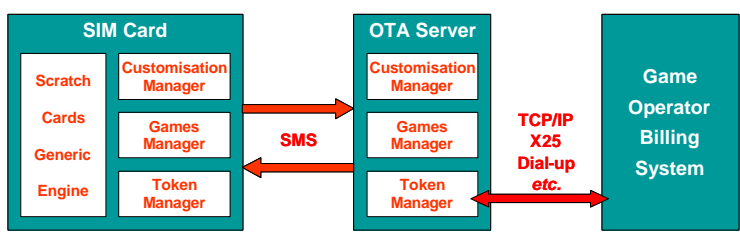




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## MobiScratch

*MobiScratch* consists of a generic gambling engine that allows the modelling of almost any scratch card game. A simple customisation defines the rules for a specific game (range of bet amounts, possible winnings, etc.). This means that new games can be loaded by a simple click on the mobile phone, with completely new rules and of a completely new interest to the user. Implementation of new games is easily achieved by defining a new set of customisation parameters and could be done in just a few hours (no additional developments required).



## MobiJack

Black Jack is a card game the aim of which is to reach a score as near as possible to 21, but always under, or best, equal. The game is played against a bank, also called the dealer. With *MobiJack*, the GSM subscriber plays against the bank which is controlled by the application running on the SIM card. *MobiJack* gives the user the opportunity to play anywhere and at anytime. Needless to say the application will win the approval of casino fans and allow subscribers make better use of their mobile devices.

# Games Portfolio

