



Customer

Our customer is a Europe based manufacturer of Casino Slot Machines, Video Gaming and Electronic Gaming Machines. The customer is one of the top three manufacturers in this segment and is based in Europe with sales and support offices in 25 countries across 6 continents.

Business Overview & Gaps

Slot machines are the most popular gambling method in casinos and constitute about 70 per cent of the average casino's income.

All modern Electronic Gaming Machines (EGMs) are designed using Random Number Generators (RNG), which constantly generate random numbers, at a rate of hundreds or perhaps thousands per second. This also involves algorithmic designs that ensure that random number sequences are not repeated for a period that is long enough for the gaming operators, not to be worried.

Most operators would ideally want the EGMs to be integrated and create single RNG across multiple EGMs. This means that the RNGs generated are going to be in multiples of thousands per second and can into really huge volumes. This has to be taken care of, while integrated multiple EGMs and while running progressive Jackpots across multiple EGMs from a single location or multiple locations.

This scenario also necessitated the need for centralized management that does remote handling of EGM configuration, and to gather meter and event data from EGMs.

Business Need

The fact that most operators want the EGMs to be integrated, necessitated the need for centralized management and more specifically

- Remote handling of EGM configuration
- Gather meter and event data from EGMs
- Integration of Hardware True RNGs
- Solution to be rolled out in a matter of weeks

Dusane's Solution

Dusane implemented TranZnet based gaming transactional system to handle high volume data generated by a series of EGMs. Dusane also integrated hardware true RNG to generate random seeds for the slot games. This complete prototype was done by Dusane in a period of just 4 days and the prototype was demonstrated in various gaming exhibitions.

Solution included

- Development of communication library that integrated seamlessly with the slot machine gaming application. This library created an abstract layer and a bridge with the central system allowing slot machine game developer to just call methods provided by this library to communicate with the central system
- Central system was a customized installation of TranZnet based transaction framework, which is an highly scalable and high performance system. Central system consumes the requests sent through the communication library and stores it in the database. Rules engine handles the validation rules
- RNG server receives large number of requests from the slot machines and the RNG seed responses were delivered to the slot machine in less than 20 milliseconds
- TITO (Ticket Voucher In/Out) functionality was implemented. All TITO vouchers were stored centrally and the vouchers Ins get validated at the central system before it is redeemed
- Central system completely controls the gaming parameters of the slot machines like maximum/minimum bets, game percent, max lines, double up, reel stop mode etc.
- All meter data and events were sent to the central system for analysis. The data is recorded and presented to the slot analysts for further analysis

Technology Used

- TranZnet framework developed on JBoss App Server platform
- Customization of TranZnet in Java on EJB 3.0 framework
- C/C++ for communication library
- C++ for communication processor to handle slot machine connectivity and sessions
- C++ software RNG code integration provided with true RNG hardware devices

Success

- This centrally managed solution was launched at a premium European gaming trade show in Sep '08
- It was well received and our customer has already done a major roll out of this solution and is handling a number of enquiries
- Dusane implemented this complete prototype through the usage of existing IP like TranZnet in a period of just 4 days
- Dusane is currently working on incorporating data analytics towards mining and reporting

About Dusane

- Core focus is in on building strong technology IP offering solutions in the enterprise application space and Media & Entertainment space
- Key service offerings are Gaming, Meida Delivery and Business Transaction Solutions
- Founded in 2006; part of Valuable Group of Companies

Dusane Infotech is a technology consulting and development company with focus on middleware engineering services in the media & entertainment space. Our offerings help our customers reduce their time-to-market; reduce costs and drive business value.

Combining a fresh perspective to high volume business transactions with our experience in advanced technologies, we deliver consistent results for projects rarely achieved with conventional methods. Our proprietary business transactions framework called TranZnet handles high volume centralized transaction over multi location points of transaction.

Customer outcomes are underpinned by our delivery methodology and best practices, proven across the spectrum of Media & Entertainment space and related business sectors.

Dusane Infotech is headquartered in Mumbai, India.



Engineering
business value

Tel.: +91-22-41618300. Fax.: +91-22-41618399
www.dusaneinfotech.com. Email: info@dusaneinfotech.com