

CASE STUDY

RFID MULTI-READER FOR PLAYER IDENTIFICATION



Gaming

A new Czech regulation on gambling was recently adopted and came into effect on January 1, 2017. To play a slot game all players must register with the operator, and operators must ensure that players take a 15-minute break every two hours. There are also limits on the possible winnings and losses on technical game devices.

REQUIREMENTS

The Czech company Apollo Games, a specialist in design, development and manufacturing of video slot gaming machines, responded to the gambling regulation immediately. Apollo Games introduced a special authentication device with an integrated ELATEC TWN4 MultiTech SmartCard reader to the market. Apollo Games is the first company in the Czech gaming market to receive certification for such a solution.

BENEFITS

- + Compact design combined with support for all three RFID frequencies and smartcards
- + Enabling dual use in contact and contactless environments

PRODUCT: TWN4 MULTITECH SMARTCARD

- + Powerful RFID reader/writer component
- + Support of standard contact card technologies
- + Supports 60+ RFID technologies – LF, HF and NFC
- + Also supports contact-based smartcards (ISO 7816)
- + Allows enhanced security in applications

TWN4 MULTITECH SMARTCARD

The TWN4 MultiTech SmartCard reader can satisfy all of Apollo Games' requirements.

For more information see:
elatec.com/smartcard-en



SITUATION

The player must be identified upon arrival and validated against a local player registration system. While playing, a set of information is to be displayed alongside standard game screens informing the player about various aspects of his/her play: total loss, losses per each session, current gaming time spent before mandatory break, etc. Upon removal of the player's card, the player will be logged out and the terminal locked.

CHALLENGE

Given the new regulation, Apollo Games needed to develop a new type of USB-based hardware device that meets the following requirements:

- + RFID reader capable of holding a card and signaling its insertion and removal
- + RFID reader has to support all existing gaming cards on the market (including contact-type smartcards)
- + Ability to program apps to run on the reader
- + Easy firmware updates of the reader in the field
- + Reader can operate as a standalone or host-based
- + USB and RS232 interfaces



Apollo Games USB-based hardware is attached to the side of cabinet. For user interaction: buttons, a LCD screen and TWN4 MultiTech SmartCard reader are implemented.

SOLUTION

There are many different card systems used in the Czech gaming market. With the TWN4 MultiTech SmartCard reader from ELATEC, Apollo Games has chosen a universal reader. It includes both a contactless RFID interface (LF+HF) as well as an integrated slot for contact card systems (ISO 7816) and supports more than 60 LF and HF RFID technologies. Additionally, the reader can be programmed with a script language for autonomous execution of even complex commands such as login procedures, increment/decrement functions and many more. This special app-writing feature and the ability to carry out upgrades in the field are important performance features that will determine the future viability of Apollo Games' model.

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