

Secure Stadium Access System



The target: Entry to the stadium **ONLY** with digital ticket, which can be used **ONLY** once!

The solution: **OTOT's Secure Stadium Access System.** A complete stadium access system, by digital tickets: Barcode tickets for one time entry, And RFID Smart Cards for club members. It is easy to install, easy to operate, reliable and affordable to any stadium!

Secure Stadium Access System – in 3 steps:

1 Printing and Selling Tickets and Cards:

- Barcode paper tickets for one time visitors** are printed before the game, in the stadium office*. Then, the printed tickets are taken to the ticket selling booth, to be sold to the visitors. Selling is done as is, or by any cash register machine.
- Full season cards and club member card:** Those are RFID Smart Cards, made from PVC. Each card belongs to a club's registered person. Those cards allow full season entry to the club games.

***Note:** Optionally, printing the cards will take place at the POS, in selling time. It require computerized POS and SW.



2 Entry Point: the Turnstile

Entry Turnstiles– electrically controlled. Any turnstile will do: low- tripod or full height.

The turnstile function is to permit one visitor at a time, only after it receives a "release" signal from the **Access Ticket Validator**- see next.

Note: turnstiles can be provided by us, or other vendors, or you can use existing turnstiles.



Tripods Turnstile

3 The Access Ticket Validator – The heart of the system!

Each Turnstile is controlled by a **Ticket Validator**.

The **Validator** reads and validates both types of tickets: the barcode tickets and the RFID Smart cards.

The Validator tasks are many:

To make sure the ticket is belong to this site, valid for today, the right gate, etc., according to venue needs.

The Validator also controls the turnstile, and prevents Next ticket reading if previous visitor didn't accomplish entry.


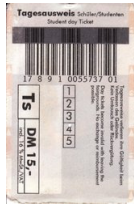

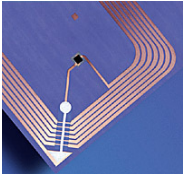
It has counters, event's memory, display, etc. etc. etc.

Therefore, the validator has inside strong microcomputer, and all other communication and controlling electronics features.



Strong metal **Validator**. Other designs also available.

New technology: One System – 2 Types of Ticket's:

<p>1. For one time entry: Barcode paper tickets. The barcode sign may be encrypted to avoid forgery.</p> <p>The tickets are supplied already pre-printed with the stadium's design and logo (4 colors, 2 sides). The printing of the changing details (game time, gate, price, etc.), and the barcode symbol, may be printed at back office, or at the POS in selling time.</p>	<div style="display: flex; justify-content: space-around;">   </div> <p style="text-align: center;">Printing Barcode tickets</p>
<p>2. For season members, VIP, staff, etc.: RFID Smart Card (PVC). We use Mifare (Philips) cards. It's the best technology, FIFA approved, world wide 'Number One' technology...</p> <p>Those cards permit entry for all season, under pre defined limitations, costumed for each stadium.</p>	<div style="display: flex; justify-content: space-around;">   </div> <p style="text-align: center;">RFID Smart Cards Made from PVC.</p> <p style="text-align: center;">Inside the RFID card</p>

The Challenge:	The Solution:
To design Venue Entry System with those advance requirements:	OTOT's Secure Access by Ticketing System!
<p>Requirement: One system, for both types of tickets: A) Low cost ticket for one time entry. B) long use: full season funs, VIP, etc.</p>	<p>Solution: Our Secure Stadium Access system, is doing exactly that: works with the 2 types of tickets: Barcode paper tickets, for one time entry, and smart RFID PVC cards, for full season members, VIP, etc.</p>
<p>Requirement: To insure high standards against forgery of tickets</p>	<p>Solution: RFID Smart Cards are highly protected by their nature... But, Barcode ticket? Well, yes! Way? Because we use encryption for barcode tickets, so they are also protected!</p>
<p>Requirement: To provide a system which is fast to install and easy to operate. The idea is that regular club's personal can handle the system, without computer's specialists, or IT personal.</p>	<p>Solution: Our concept of secure access is simple to install, and easy to operate. The system can work with or without central computer, with or without communication lines... etc. It is not a must to use complex Software and massive database, to validate tickets... Even computerized POS are not a must! Way? Because each Validator does the work by itself ! So central computer become optional !</p>
<p>Requirement: To achieve high reliability, and minimum downtime.</p>	<p>Solution: our system's simplicity is the cause for it's advanced reliability! It is also the reason that even if one part brakes- the rest of the system keep working same as before!</p>
<p>Requirement: To keep low prices, so even small stadiums can perches it. And not only low cost to buy- it must also be low cost to operate!!!</p>	<p>Solution: Without expensive main computers and SW, without computerized POS, without IT personals, etc. – no wonder the costs are so low... to buy and to operate!</p>
<p>Requirement: To secure client's investment in the equipment.</p>	<p>Solution: Since OTOT is the original manufacturer, we can guaranty future upgrades and custom changes.</p>