

JSW (Vijayanagar Works) : Swagath Project *Access Control Management System*

An advanced security solution for effectively monitoring and controlling movements of an individual or vehicles on the premises of an Enterprise.

- ◆ 3,700 Acres of Area Covered
- ◆ 434 Mantra's Biometric Fingerprint Devices Installed
- ◆ 76,000 Daily Gate Entries Managed
- ◆ 45,000+ Active Users



Mantra's access control management system streamlines the process of identification & authentication of individuals at the JSW (Vijayanagar Works) to restrict unauthorized entries inside the premises and offer a reliable security solution.

Introduction

In the prevailing security scenarios, even a great amount of physical security is not adequate to confer impregnability. To secure physical & logical assets an organization or enterprise seeks a smart solution that insulates the risk of unauthorized access with the help of SMART access control mechanism. Effective automation system complements the security of human resources and security infrastructure to thwart any subtle or coerce tricks employed by the perpetrators. The electronic biometric-based access control not only creates denial deterrence of authorized access to the right entity but also provides real-time data and tracks the footprints of users in premises to measure the usage of resources, optimize security processes and secure the infrastructure.

Objective

JSW steel limited desired a higher level of security and hence our access control systems were incorporated by them, aiming to manage the access of personnel, visitants and vehicles. The objective of our access control management system is not only controlling the access of an individual i.e. core employees and visitors but also controlling access of passenger's and good's vehicles.



Background

JSW Steel is one of India's leading integrated steel manufacturers with a capacity of 18 MTPA. By staying on the cusp of change, and maintaining the best-in-class standards, JSW aims to revolutionize steelmaking. The group have set up a total of six power stations and is one of the fastest growing companies in India with a footprint in over 140 countries with presence across India, USA, South America and Africa. JSW had challenging and increasingly growing security requirements. The steel manufacturer witnessed an urgency to manage & track movements of individuals and control the access of unauthorized person at their Vijayanagar works.

The Challenge

Organizations today face a myriad of security challenges at their facilities. Managing the access of only authorized people into a facility is a major concern. The primary challenge for JSW was to secure their facilities from unauthorized personnel or visitors while also allowing a free flow of people who have a legitimate purpose in engaging with the organization.

The Solution

The access control management solution played a key role in creating a process oriented security system for JSW steel limited, restricting unauthorized access within the premises and monitoring the movements of employees, associates, interns or trainees, casual workmen, visitors and personnel from other geography.

Mantra's access control management system delivers the flexibility, scalability, and responsiveness that the plants of JSW steel limited needed for controlling the access of vehicles along with individuals. Being in the manufacturing and transportation business, availability of vehicles and operational efficiency are crucial areas. Thus, with Mantra's access control management system, people at the managerial level or higher than that are allowed to get through the gates of the selected areas with the help of RFID while the unauthorized vehicles are restricted to enter the gate.

◆ Access Authorization

Access authorization is specifying access rights privileges to individuals & vehicles.

With our access control management system, only authorized HODs nominated by the site authority of the steel manufacturer are allowed to approve the request relating to the access of an individual. Furthermore, the location-wise list of authorized employees is maintained by the security control room or ID-cell, approved by the Site-Business Head/COO to grant access to the users. The list of the users at the site is reviewed every six months and those employees who are transferred or no longer associated with the company are deleted from the list. Based on an authorization process, the individuals and vehicles are grouped separately so that respective authorized signatory will be assigned to both the groups.

◆ Access Control for Individuals

Ensure real-time monitoring of individuals and increase the security at the premises.

For efficiently carrying out the security process with our access control management system, all personnel at the JSW site are expected to carry their photo ID cards and perform biometric validation as a part of the enterprise's discipline operation. This way the employees or visitors are mapped with the help of their biometrics and cards at every access points such as controlled doors/barriers/readers. Furthermore, the biometric validation and card logs at the respective work location are employed for recording time attendance. With our smart access control system, all the entry logs of individuals' entry are recorded biometrically at the controlled security access points.

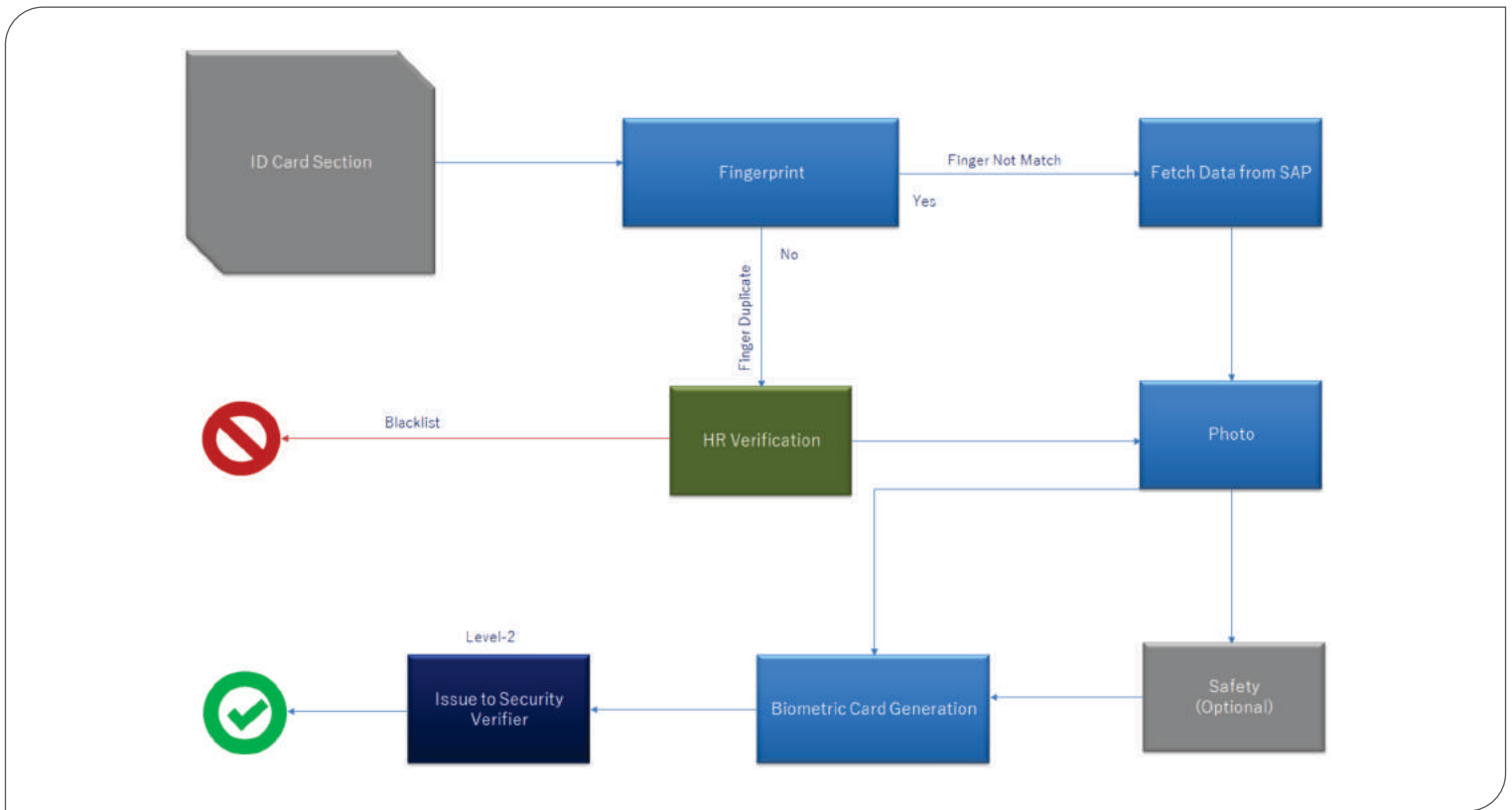
However, the entry cards or entry permits considered as ID cards are issued by the security at JSW's plants only after completion of prescribed formalities. If a visitor wants to visit the premises for the scheduled duration, then a temporary access is granted to him/her by the security control room based on the approval of approving authority. The biometric ID of an individual is unique and cannot be de-duplicated which further makes the access control management system ideal for large plants like JSW. Furthermore, biometric validation is strengthened with CCTV integration at all the access points. As per the job requirement or designation, ID cards of different colours is issued to the users. However, the master access cards are only accorded to the workmen of fire, medical, security, all emergency services and IT departments, while the other workmen require a mandate from COO office.

Salient Features

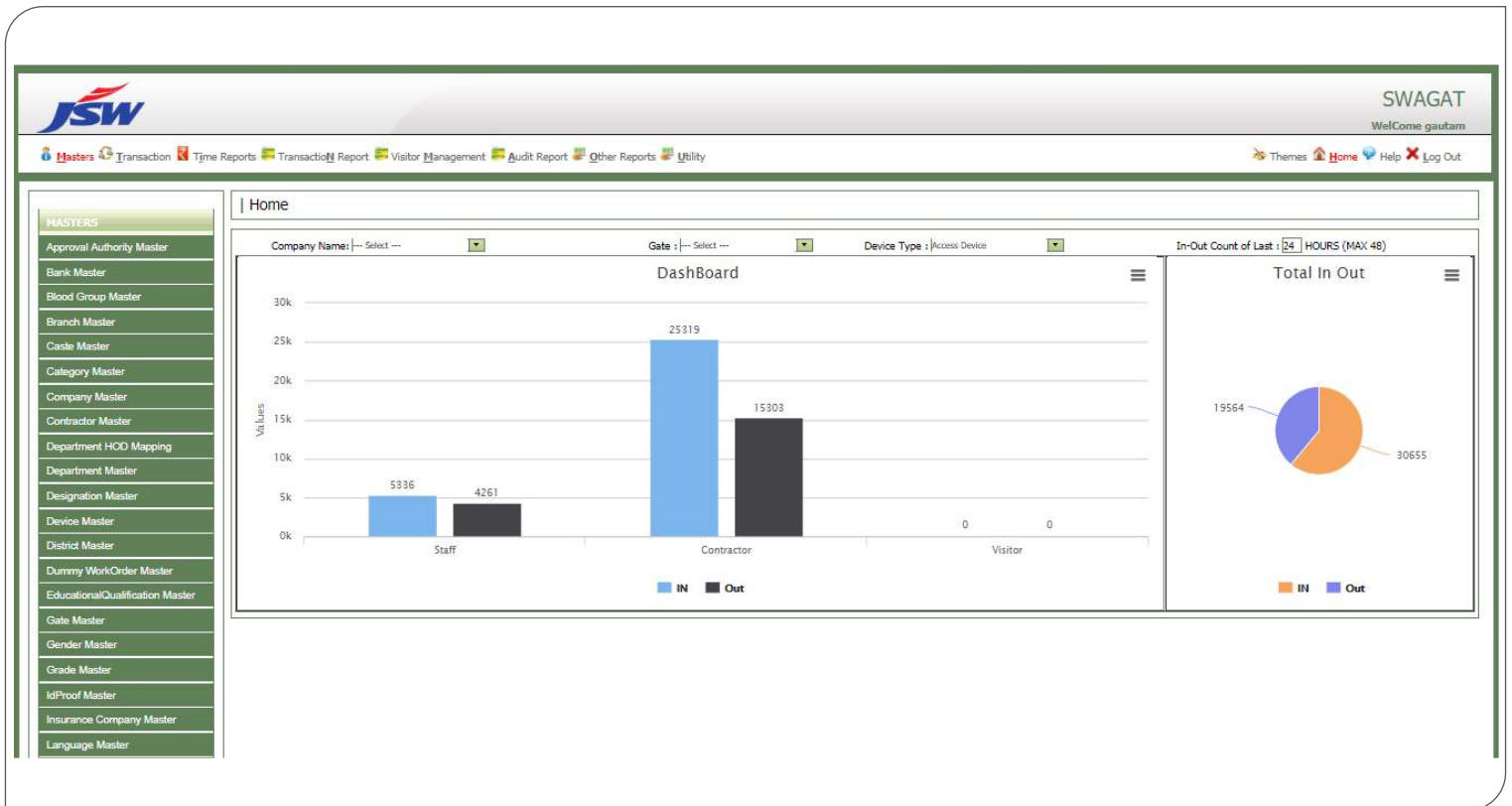
- ◆ Smart card based fingerprint authentication turnstiles for walkthrough on single bidirectional entry/exit
- ◆ Accurate individual authentication
- ◆ Past history record
- ◆ Blacklisting pop up
- ◆ Past employer information to prevent duplication or poaching
- ◆ Online monitoring at campus at every level and path tracking
- ◆ Integration with Ramco ERP
- ◆ Web-based and cloud-based solution
- ◆ Dynamic reporting standards and desired report filtration
- ◆ Real-time dashboard
- ◆ Alarm management



JSW Staff Access Permit Work Flow



JSW's Access Control Management System Dashboard



The benefits that can be achieved using our Access Control Management System to safeguard your premises have been briefly described below:-

◆ Intrusion Detection and Prevention

In big enterprises and plants, interlopers some of the time go unnoticed or maybe seem to be effortless. It is for this reason the access control systems are developed as per the latest technology to deliver advanced security solutions. The access control systems assist an enterprise, organization or business to be accessed by only authorized personnel and monitor the movements of visitors visiting the premises.

◆ Deterrence of Criminal Activity and Protection from Theft

As an owner of an enterprise, one is faced with the continuous struggle concerning crime including vandalism, theft, burglary, and even arson – all which can be averted using the proper precautionary methods. With an access control system, it is possible to monitor who has access to which area and assets. Our access control solution offers an advanced Biometric-based access control system that will effectively detect and prevent criminal activities.

◆ Protection of Manpower

With the facts and authority of who has access to an asset or restricted areas, when and precisely where, employers are able to extend the security of their employees. Our access control system provides a secure working environment which is crucial to the proceeded victory of any enterprise.

The access control system is a complete security solution for not only protecting the manpower but also securing the physical assets. Consequently, our access control system increases the productivity of the manpower and the enterprise as a whole.

◆ Control the Access of Vehicles

Our access control systems can be tweaked to each individual's particular needs. After enhanced as such, it is conceivable to control which vehicle enters or exit the main gate and at what time. Moreover, our access control system offers vehicle entry permits for passenger's car, buses, trucks and goods carrying vehicles.

◆ Electronic History Logging and Muster Reports

With our access control systems in place, it is possible to log and record every time access is granted. These reports can accurately detail time and place of access for reviewing purposes if necessary or required at a later stage. For security purposes, it provides the owner of the premises with peace of mind, and when an enterprise undergoes an audit trail that can be accessed electronically at any time.



Make In India

www.mantratec.com