



enterprise Software Solutions Lab

Biometric Time & Attendance Solutions

Biometric Attendance for your office



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➞ Why Biometric Attendance?

- RFID based time and attendance systems have a big loophole: buddy punching. For example: Ram Come Lately, delayed on his way to work, can ask fellow employee Sunil Buddy to swipe Lately's RFID employee badge through the time clock. The time clock will faithfully record Lately's attendance before he arrives, and the employer will pay Lately for time that he didn't work..
- **Biometric time systems eliminate buddy punching because they are inextricably linked to the employee, not to a token such as an employee badge or a time card.**

➞ Fingerprint Smart Card Solution

- The Fingerprint smart card will have the same format in size and thickness as the standardized plastic cards circulated to all employees. All 10 fingers of every employee will be recorded into their individual smart card.
- Biometric Smart card reader will be installed at every entry & exit doors where every employee can show their work begin punch & work end punch.
- System verifies Fingerprint with card in less than 1 second and it supports up to 60,000 employee registrations in one device
- If employee strength is less than 1500 then there is no need to use Card and only fingerprint verification is sufficient.



How it Works?

Punch Data

Attendance or AccessControl



Biometric Fingerprint system

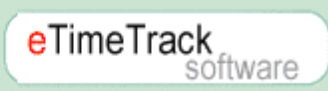


Biometric Fingerprint with RFID/MIFARE/HID Card system



RFID/MIFARE/HID Card system

Process Data



Desktop or Web based software developed on MS .Net & SQL Server.

Over 25 Standard Attendance Reports in Excel or PDF format.

Export attendance data for Third party Payroll software.



Collect Data

Collect data with multiple options:

- * RS 232/RS 485
- * TCP/IP
- * GPRS
- * Telephone Modem
- * Intranet
- * Internet

Both Online & Offline download options

Logs can also be saved in external custom text formats

Features

➤ X990 Standalone IP based – Fingerprint Time Attendance/ Access Control Terminal

- Color TFT Screen with GUI Interface for ease of use.
- Reads Fingerprint, RFID Card and PIN's.
- Optional integrated proximity, HID and smart card reader.
- Built-in Serial and Ethernet port.
- Optional built-in battery backup provides approx 5 hours continuous operation.
- Optional built-in wireless Wi-Fi or GPRS for wireless communication.
- Auto uploads Log.



Hardware Specification

Specifications:

Fingerprint Capacity	3000 templates
Transaction Capacity	100,000
Hardware Platform	ZEM510
Sensor	Optical Sensor
Algorithm Version	Finger v10.0 and v9.0, default v10.0
Communication	RS232/485, TCP/IP, USB-Client, USB-Host
Time attendance Standard Functions	Work code, SMS, DLST, Self-Service Query, Automatic Status Switch
Optional Functions	ID/Mifare/HID, Back-up battery, Extensible barcode, Relay-bell, Scheduled-bell, Web-server, SOAP, 9 digit user ID
Display	3 inches TFT Screen
Power Supply	12V DC 1.5A
Operating Temperature	0 °C - 45 °C
Operating Humidity	20%-80%
Dimension	210×157×50mm



eTimeTrack — time & attendance software

eTimeTrack Lite

- ➔ eTimeTrackLite is supporting all top Databases - MS Access - SQL Server - Oracle.
- ➔ Desktop Application with Client Server technology
- ➔ Web Based centralized System Available
- ➔ Multi Location & Multi Department
- ➔ Flexible Shift timing can be defined with allowed grace time for late coming and early going



- ➔ Tracking of accruals such as Absent, Late, Early Leave, OT
- ➔ Easy Configuration of Company Holidays
- ➔ Leave Type is defined for Leave Entries.
- ➔ Multiple Edit option in Leave summary form (to adjust Carry forward/deduct leaves)
- ➔ Shift calendar is defined for scheduling different shifts on different dates.
- ➔ Flexible and powerful reporting capabilities



Benefits

eTimeTrack Lite

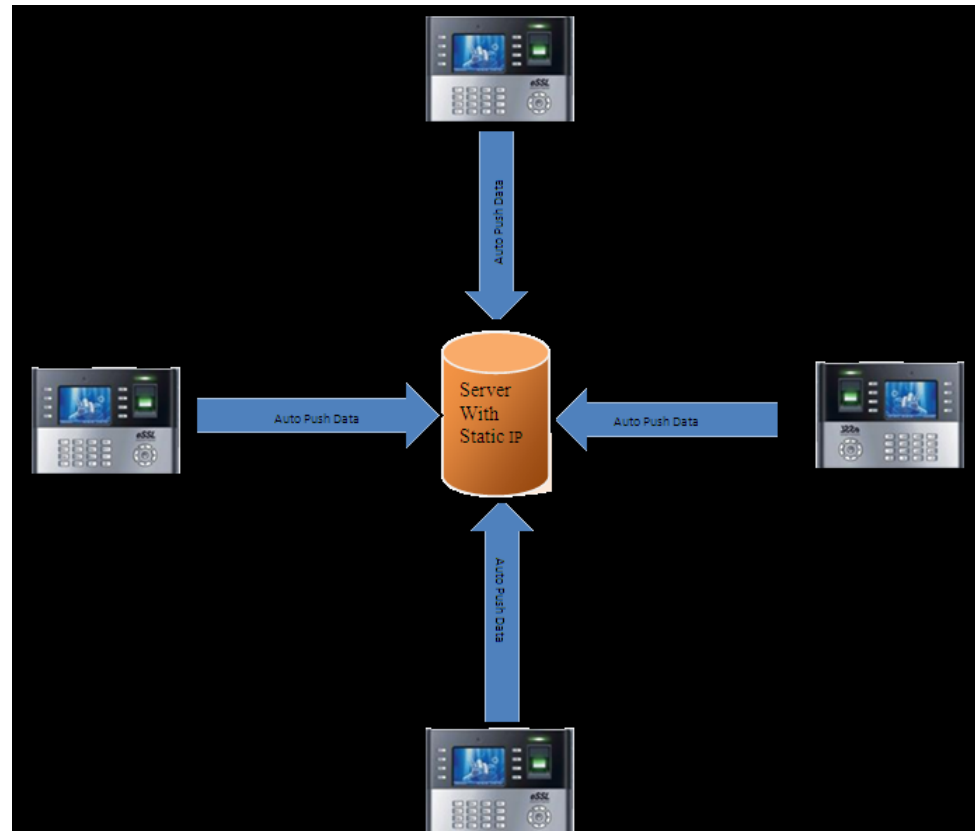
- User friendly appearance requires less time to get you educated for the software.
- Scheduling of shift can be done by both employee and Department wise.
- Do away with timecard preparation, collection, filling and storage
- Significantly cut down on payroll processing time
- Wide range of reports
- Continuous Absent/Late Coming/Early leaving reports
- Eliminate unauthorized hours

Connectivity

- ➔ X990 Captures the Time attendance of Employees Electronically Uses Fingerprint image to capture the attendance which is one of the unique features.
- ➔ Attendance data are stored locally and also centralized with its unique concept of real-time communication over internet. It uses internet connection available either on existing LAN/WAN network or GPRS.
- ➔ Works with Single Static IP address on LAN/WAN/GPRS (Internet/Intranet)

WEB Application

Auto-Push Facility for Live Data Availability...



Data Would be Continuously pushed to main server From Each Device for live data availability through Internet.

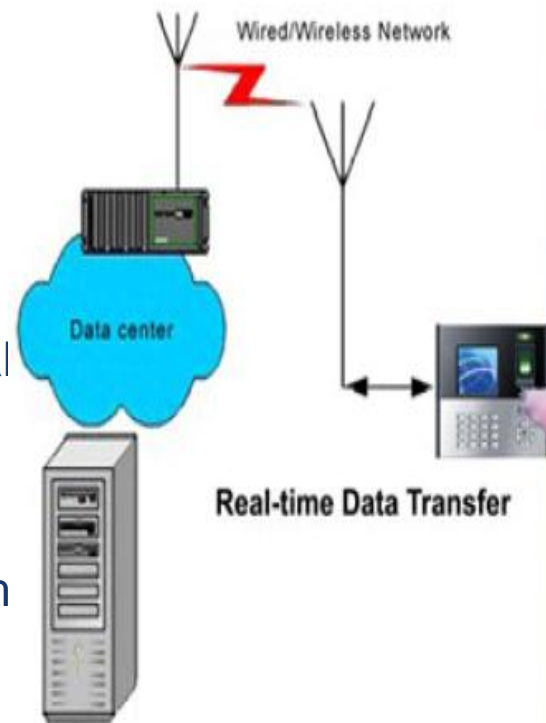
➡ X990 is IP enabled, directly connects to the internet without the need of a local PC.

➡ All the devices can be connected to the central server, and can be monitored remotely.

➡ Automatic synchronization with the central server.

➡ Reports can be seen by the authority from anywhere in the world.

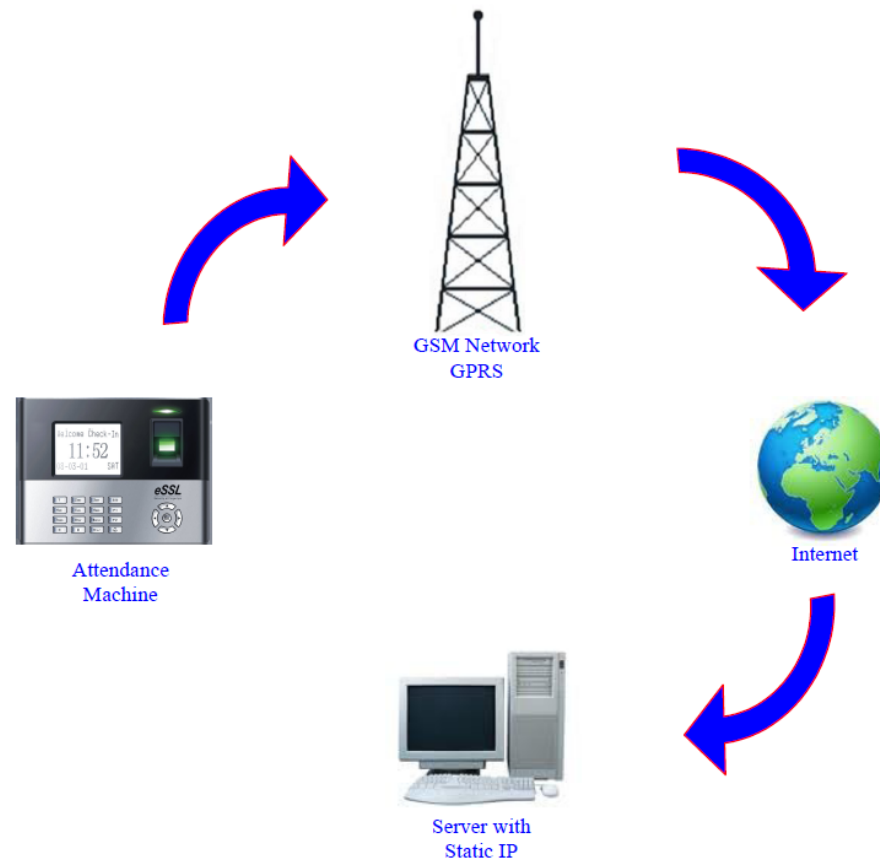
➡ Centralized data base.



GPRS

- ➔ Device connects to the internet through inbuilt GPRS modem and transmits General Log Data to the web server (Located by Static IP or DNS)
- ➔ And the web server receives Data and stores it into the located database (MS SQL)

GPRS Communication





Implementation Approach

- ➞ PHASE 1: Information gathering
- ➞ PHASE 2: Infrastructure & Initial Training
- ➞ PHASE 3: Specifications
- ➞ PHASE 4: Design & Development
- ➞ PHASE 5: Testing
- ➞ PHASE 6: Training
- ➞ PHASE 7: Live

Company Overview

- ➔ 2001: Entered time & attendance market
- ➔ Made 35,000 customers domestically.
 - 40% Service industries
 - 20% Retail industry
 - 15% Manufacturing
 - 5% Transportation
 - 5% Government
- ➔ 2007: Awarded as Market Strategy Leader in India for Attendance & Access Control Systems by Frost & Sullivan (by World's No. 1 Research company)



Success Story - Gujarat state government



- The Gujarat state government has initiated this project to ensure full enrolment of all eligible students and to reduce dropout rate in primary schools.
- It was discovered that apart from socio-economic reasons, absenteeism of teachers, particularly in tribal areas and remote villages is one of the most important reasons for high dropout rates
- All noble initiatives of the State Government lose effectiveness and seriousness, when teachers remain absent without due permission, for a long period. It was, therefore, urgently needed to have a strong and reliable mechanism to monitor attendance of teachers and students
- A standalone fingerprint biometric machine with external uninterrupted power supply up to 12 hours installed in each primary school for recoding attendance of teachers as well as students.
- The pilots is implemented by Bangalore based enterprise Software Solutions Lab (ESSL).
- The pilot project covers 680 primary schools, 70 Cluster Resource Centres (CRCs) and 4 Block Resources Centres (BRCs) in Narmada district, one of the most backward districts of Gujarat having predominant tribal population and low literacy. It will cover around 2,508 teachers and 76,000 students.

Success Story – Karnataka State Pollution Control Board



- ➔ The Karnataka State Pollution Control Board has its headquarters in Bangalore & approximately 28 Regional offices all across the state.
- ➔ KSPCB required new methods for improving punctuality of staff & a centralized web/internet based monitoring system.
- ➔ eSSL installed Biometric/Fingerprint based Attendance monitoring system all across state with a centralized website kspcbindia.com to monitor attendance.
- ➔ KSPCB proclaims, it has got a very good “ROI” based mantra which brought punctuality among staff all across its regional offices.

Success Story - Municipal employees use the fingerprint machine for attendance



- ➞ Biometric Finger Print Attendance Machines are installed at five locations of Alandur Municipality
- ➞ This is the first of its kind in any local body in the southern suburb of Chennai.
- ➞ The move is aimed at regulating the attendance of employees of the health department and also the general staff.
- ➞ The system was launched to check the roll of attendance of around 300 staff and to ensure that they reported for duty on time. Further, it would also be easier for the municipal staff to prepare pay-rolls.
- ➞ It would be foolproof, they added.
- ➞ Officials said the equipment used fingerprint recognition technology to record the attendance of staff.

Few of our prestigious customers



Education Department
Government of Gujarat





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Thank you for viewing our presentation.