Case Study

Andhra Pradesh Technology Services Limited

Aadhaar Enabled Biometric Attendance System (AEBAS)

Real-time and efficient centralized attendance monitoring solution based on Aadhaar authentication, particularly utilized for Government officials.

- ◆ **13 Administrative Districts of Andhra Pradesh are Covered**
- ◆ **17500+ Aadhaar-Enabled Biometric Attendance Systems Installed**
- ◆ **45 Days – Project Implementation within a Short Span**

Client Overview

Andhra Pradesh Technology Services Limited (APTS) is an Andhra Pradesh State Government undertaking company incorporated under the Companies Act, 1956 focusing on e-Governance. It provides consultancy, procurement services and implementation support to the government entities for their IT/ ICT related initiatives. APTS is a pioneer in consultancy services to all State Government Departments of Andhra Pradesh.

Challenges

Dealing with the management and monitoring of attendance of all the state employees

APTS employs several government officials working across 13 administrative districts of the state which includes Anantapur, Chittoor, East Godavari, Guntur, YSR Kadapa, Krishna, Kurnool, Sri Potti Sri Ramulu Nellore, Prakasam, Srikakulam, Visakhapatnam, Vizianagaram, and West Godavari. Monitoring the attendance of all APTS employees working under these 13 districts through the manual system is a complex but necessary task since the presence of officials in offices directly impact productivity and efficiency.

Customarily, the attendance of APTS employees was managed through registers where officials use to mark their attendance utilizing the manual method after reaching the office. However, supervision of this system was difficult and also liable for incorrect information being entered into the system. Therefore APTS felt the need to implement a centralized system for monitoring employee attendance in various government offices across the state, leveraging the existing identity infrastructure created by Aadhaar.

Solution

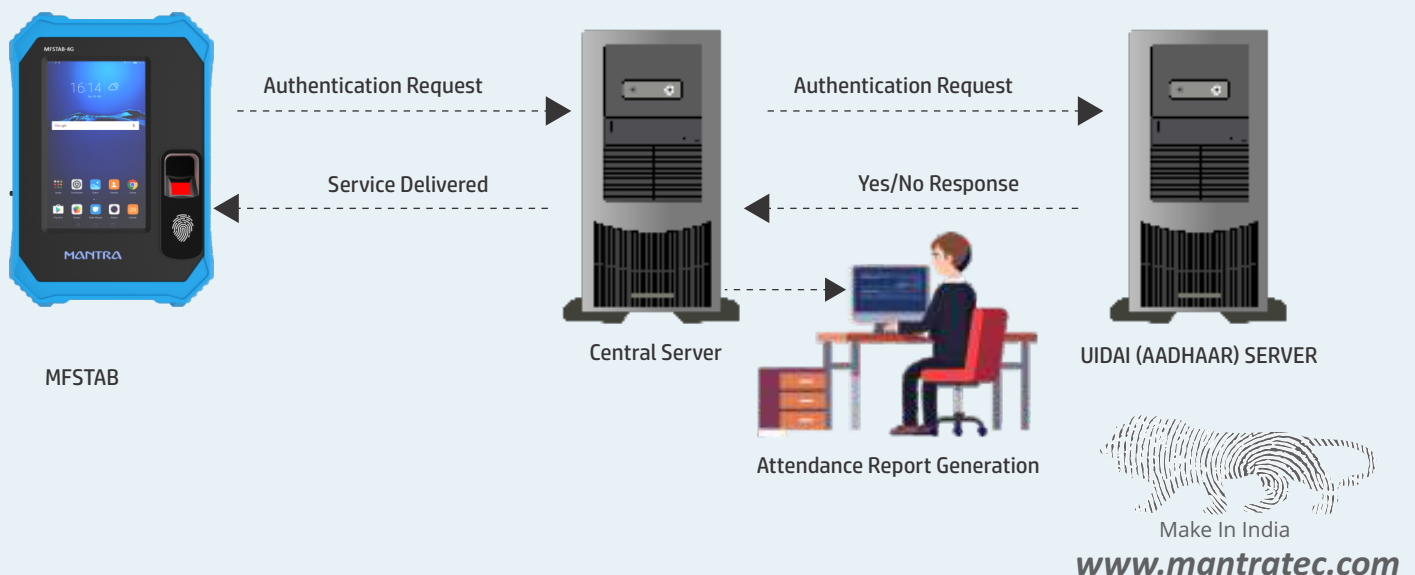**Employing Mantra's AEBAS for a real-time, accurate and reliable attendance management system**

As part of the "Digital India" Programme of Government of India, GOI has decided to implement common Aadhaar Enabled Biometric Attendance System (AEBAS) across the country. The proposed system enables an employee to register attendance by presenting his/her biometric details (fingerprint / IRIS) which will be authenticated online by carrying out a 1:1 match with the stored biometric data in the UIDAI database (CIDR) against an employee's Aadhaar number.

Following the cumbersome and inaccurate attendance management process in the wake of the standard attendance monitoring system, the APTS authorities decided to implement Mantra's Aadhaar-enabled biometric attendance system across 13 districts of Andhra Pradesh to authenticate an identity of all state employees by verifying their fingerprint impression and Aadhaar number.
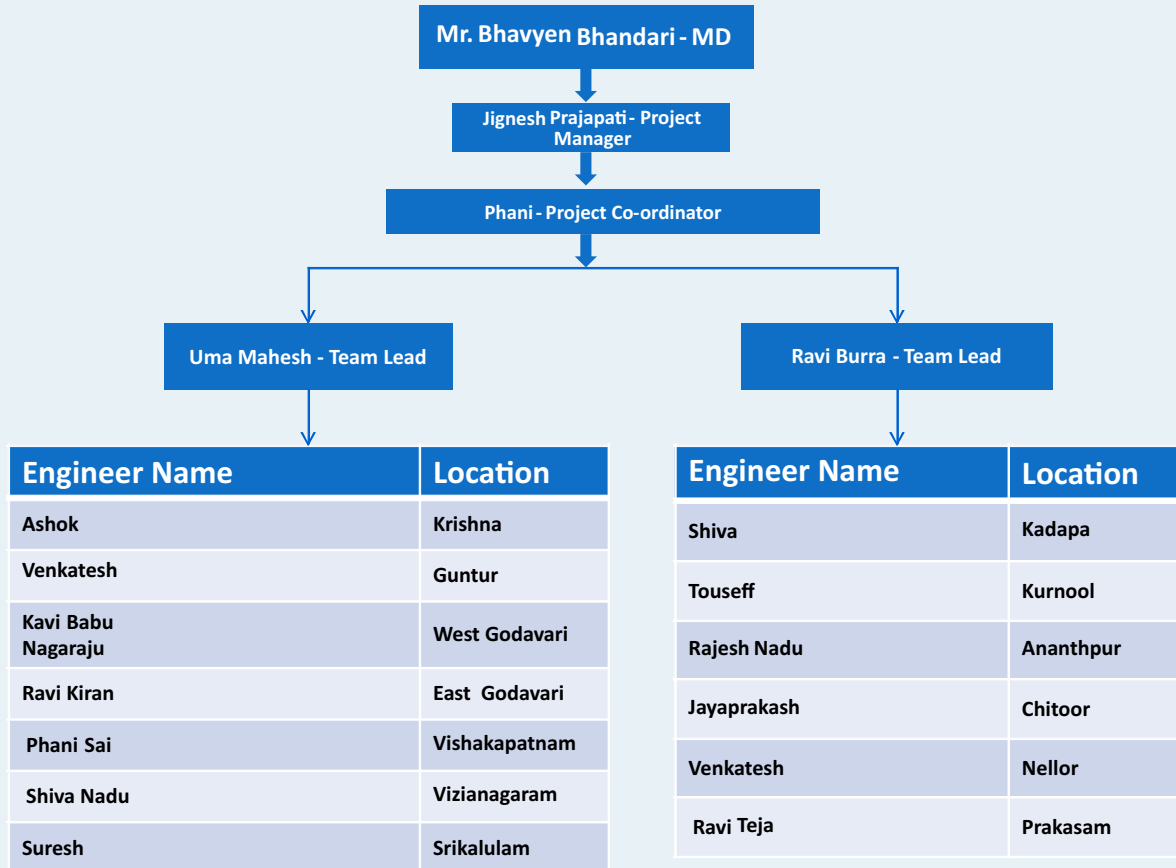
Several government offices across the state implemented AEBAS with more than 17500 Mantra's biometric attendance devices installed across the state including remote areas of the districts. Mantra's AEBAS devices streamline the process of managing time-attendance of all APTS employees across the state supporting advanced biometric technology, easy to use functionality and centralized data functions.

Salience

◆ Simple to Deploy
◆ Portable and Easily Re-locatable
◆ Online Self Registration Requiring Only Aadhaar
◆ Works on Multiple Platforms & Devices
◆ Attendance System with Real-Time Monitoring
◆ SMS Alerts for Employees

| MFSTAB | Authentication Request → | Central Server | Authentication Request → | UIDAI (AADHAAR) SERVER |

Service Delivered ←
Yes/No Response ←

Attendance Report Generation

Make In India

www.mantratec.com

Team Structure for Development & Implementation Phase

Mr. Bhavyen Bhandari - MD

Jignesh Prajapati - Project Manager

Phani - Project Co-ordinator

Uma Mahesh - Team Lead

Engineer Name	Location
Ashok	Krishna
Venkatesh	Guntur
Kavi Babu Nagaraju	West Godavari
Ravi Kiran	East Godavari
Phani Sai	Vishakapatnam
Shiva Nadu	Vizianagaram
Suresh	Srikalulam

Ravi Burra - Team Lead

Engineer Name	Location
Shiva	Kadapa
Touseff	Kurnool
Rajesh Nadu	Ananthpur
Jayaprakash	Chitoor
Venkatesh	Nellor
Ravi Teja	Prakasam

Team Structure for Operation and Maintenance phase

Mr. Bhavyen Bhandari - MD

Ashish P- National Manager

Veerendra - O&M Manager

RMA TEAM

1) Vijay
2) Uma Mahesh
3) Venkatesh

O&M TEAM

Uma Mahesh Team Lead

Ashok
Venkatesh
Kavi Babu, Nagaraju
Ravi Kiran
Phani Sai
Shiva Nadu
Suresh

Ravi Burra Team Lead

Shiva
Touseff
Rajesh Nadu
Jayaprakash
Venkatesh
Ravi Teja

SUPPORT TEAM

1) Yasmin
2) Shain
3) Vali
4) Vijaya
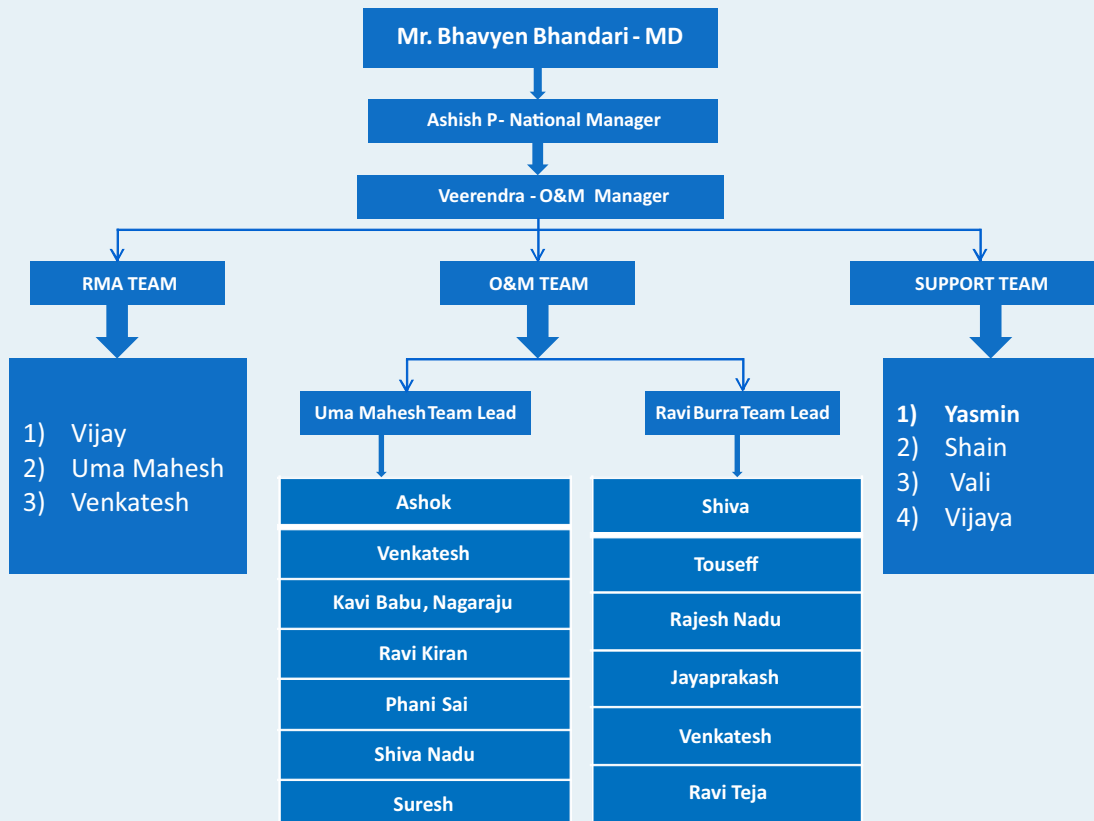
Mantra's Devices Utilized in Multiple Govt. Offices across the Country

Mantra's Aadhaar-enabled biometric attendance devices are currently deployed in multiple Government offices across the county to monitor attendance of Govt. officials in real-time on a live dashboard for improving efficiency and offering scalability. The biometric details of all the employees get collected by installed Mantra AEBAS devices and later on, uploaded in a central server for creating a biometric database that assists in ensuring the timely arrival and departure of government employees.

Integrated Fingerprint Biometric Device - MFSTAB-4G

Support STQC/Aadhaar Certified Fingerprint Reader

1:1 or 1:N Fingerprint Matching Functions

Inbuilt Battery Backup to Ensure 99.9% Uptime

Wifi Means Cable Less Installations

Compatible with State-of-the-Art Time Trak, BioPay Software

Contemporary Aesthetic that Blends Perfectly with Modern Architecture

Data Retention in Case of Power Failure, No Loss of Data

Tough Casing Protects your Device From Drops and Scratches

MFSTAB 4G is a wall mount STQC certified biometric fingerprint scanner used efficiently for Aadhaar verification. The integrated Fingerprint Sensor is one of the most secure biometric authentication device. Not only does it serve the purpose of scanning and recording but also verifying the identity of a person. With 2 GB of RAM, it allows users to do multitasking with super fast speed.

Benefits

- User-Friendly
- Higher Accuracy
- Fast Biometric Identification
- Easy Installation
- Quick Response