

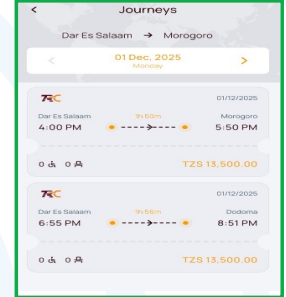
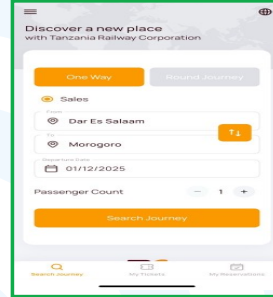
TICKETING AND FARE COLLECTION SYSTEM



TICKETING AND FARE COLLECTION SYSTEM

Ticketing and Fare Collection System (TFCS) is designed to provide secure, efficient and centrally managed ticket sales, reservations and passenger access.

The system integrates ticket offices, kiosks, ticket vending machines, flap gates, turnstiles, handheld devices and online platforms into a unified digital infrastructure. By synchronizing local and central servers, TFCS ensures reliable ticket validation, passenger monitoring and real-time operational control across all platforms.



Kiosk & Ticket Vending Machine (TVM)

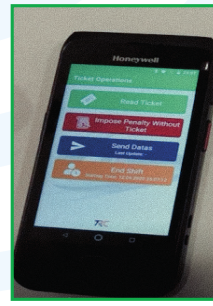
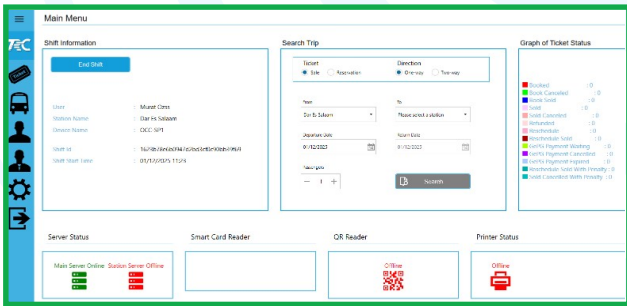
Passenger-operated automated machines for self-service ticket purchasing.

- Supports cash, debit / credit cards and QR / RFID mobile tickets
- Multilingual HMI interface for passenger guidance
- Secure hardware with vandal-resistant enclosure
- Automatic fare table and station information updates

Online Reservation Module

Online platform available through web and mobile applications. (IOS & Android)

- Passenger account creation
- Ticket reservation & sales
- Online seat selection
- Integration with banking POS systems
- Reduces congestion at ticket offices
- SMS & mail notification
- Paperless QR code ticket creation
- Multilingual HMI interface



Management Panel & Reporting

Central interface used by operators to manage the entire ticketing system.

- Management of ticket offices, TVMs and sales
- Train, journey and fare table configuration
- Monitoring of passenger throughput
- Controlling device status
- Real-time operational reporting and analytics

Handheld Devices & Flap Gates / Turnstiles

Portable handheld devices and station flap gates / turnstiles are used for secure passenger access control and ticket validation.

- Real-time QR / RFID ticket validation
- Passenger access control
- Synchronization with central ticketing system
- Prevention of unauthorized station entry
- Enables onboard ticket inspection
- Tailored gate for disabled passengers
- Penalty ticket creation for onboard handhelds

Features

- Passenger Classification System
- Timetable Management
- Reporting System
- Ticket Design Modification
- Reschedule / Refund Options
- Dynamic User Roles
- Onboard Ticket Validation
- System Diagnostic Monitoring
- Cash / Credit Card Payment
- Local Payment System Adaptation
- RFID Card Tickets
- Advertisement Area

Functions

- Train Configuration:
 - Locomotives + Coaches
 - EMU & DMU
- Timetable Configuration
- Journey Configuration
- Price Table Management
- Passenger Type Assignment
- Ticket Sales
- Ticket Reservation
- Ticket Cancellation
- Seat Selection
- Ticket Control
- Passenger Throughput Reports

Advantages / Benefits

- Faster passenger ticket processing
- Reduced queue times at stations
- Centralized monitoring of ticketing devices
- Secure and transparent fare collection
- Real-time passenger data visibility
- Flexible multi-channel ticket purchasing

References

- Awash - Kombolcha - Hara Gebaya Railway / Ethiopia
- Dar es Salaam - Morogoro Railway / Tanzania
- Morogoro - Makutupora Railway / Tanzania
- Makutupora - Tabora Railway / Tanzania
- Tabora - Isaka Railway / Tanzania
- Mwanza - Isaka Railway / Tanzania
- Malaba-Kampala Railway / Uganda

Configurations

- Government electronic Payment system (GePG)
- Government SMS system
- Common API:
 - Land Transport Regulatory Authority (LATRA)
 - Railway and Roads information management system (RRMS)
 - Electronic Fiscal Device Management System (EFDMS)
 - TRC Enterprise Resource Planning system (ERP)