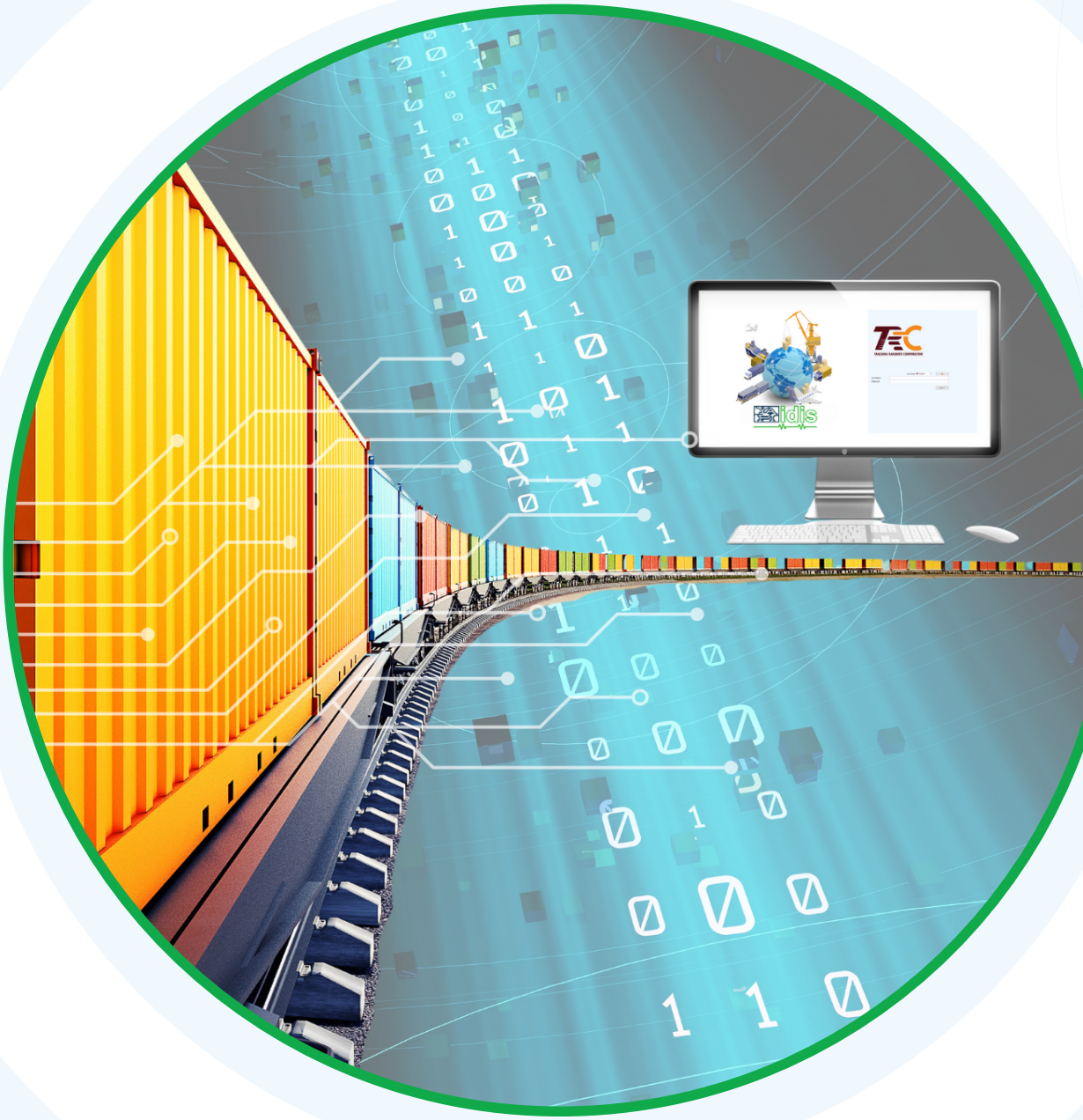
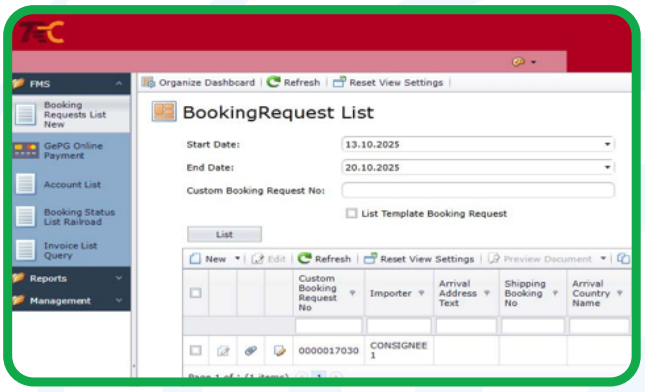
FREIGHT MANAGEMENT SYSTEM



FREIGHT MANAGEMENT SYSTEM

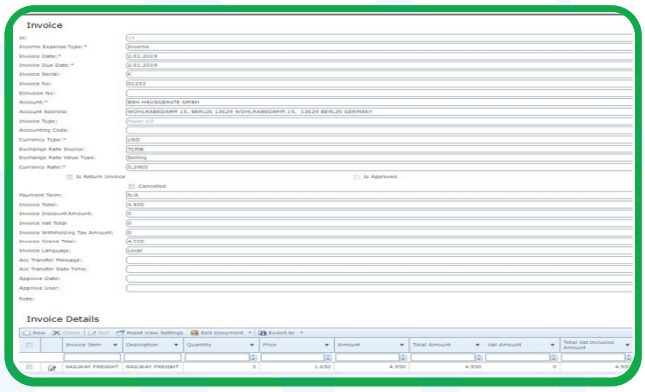
Freight Management System (FMS) is a centralized digital platform designed to manage end-to-end railway freight operations.

The system supports booking, planning, financial management and operational monitoring while ensuring reliable and transparent freight movements across the railway network.



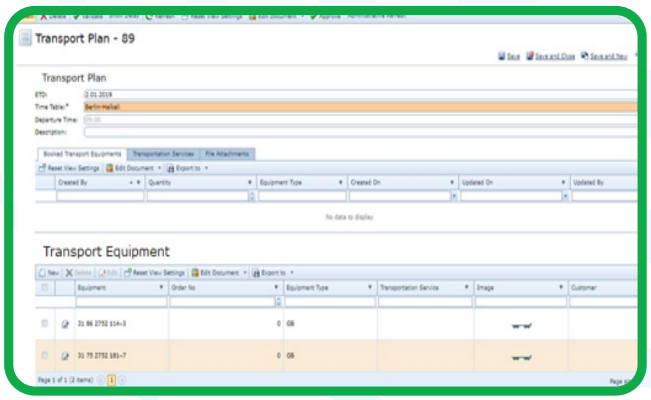
Booking Functions

- Registration of customer booking requests
- Entry of cargo details (type, weight, packages)
- Booking modification and cancellation
- Shipment information confirmation
- Customer notification via SMS / Email



Financial Functions

- Automatic freight charge calculation
- Tariff and distance-based pricing
- System-generated invoices
- Financial reporting and tracking
- Integration with payment systems



Planning Functions

- Wagon allocation according to cargo type
- Train formation planning
- Monitoring of wagon availability
- Operational planning support
- Consignment grouping and scheduling

System Hardware Components

The Freight Management System operates with the following physical hardware:

- Main & Backup Server
- Operator Workstations (Box PC / Thin Client)
- KVM Switch
- Laser Printer
- UHF RFID Reader

Features

- Application Area:
  - Airline
  - Railway
  - Highway
  - Port
- Freight Tracking
- Freight Measurement
- Invoice Management
- Reporting System
- Credit Card Payment
- Dynamic User Roles
- Timetable Management
- Freight Train Management
- Weighbridge Interface
- RSMS Interface
- Client Recognition System
- Client Information System
- KPI Tracking System

Functions

- Client Registration
- Transaction Reporting System:
  - Shipment Reports
  - Trip Reports
  - Customer Reports
  - Financial Reports
  - KPI Reports
- Freight Officer Work Tracking
- Invoice Process
- Create & Plan Freight Trip
- E-mail & SMS Notification
- Freight Types:
  - Container
  - Bulk
  - Fuel
  - Parcel Shipment

Advantages/Benefits

- Adjustable Reporting System
- User Friendly Screens
- Dynamic User Roles
- Client Informing System
- Various Application Area
- KPI Tracking System

Configurations

- Tanzania Electronic Single Window System (TeSWS):
  - -Tanzania Revenue Authority (TRA)
  - -Tanzania Port Authority (TPA)
  - -Tanzania International Container Terminal Services (TICTS)
  - -Marine Services Company Limited (MSCL)
- TRC Core Middleware API:
  - -Electronic Fiscal Device Management System (EFDMS)
  - -TRC Enterprise Resource Planning system (ERP)
- Government SMS system

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

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