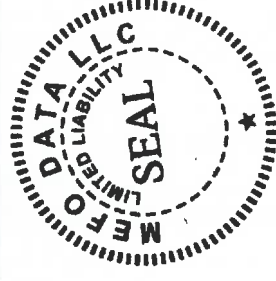




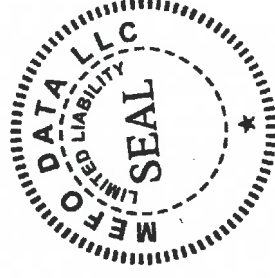
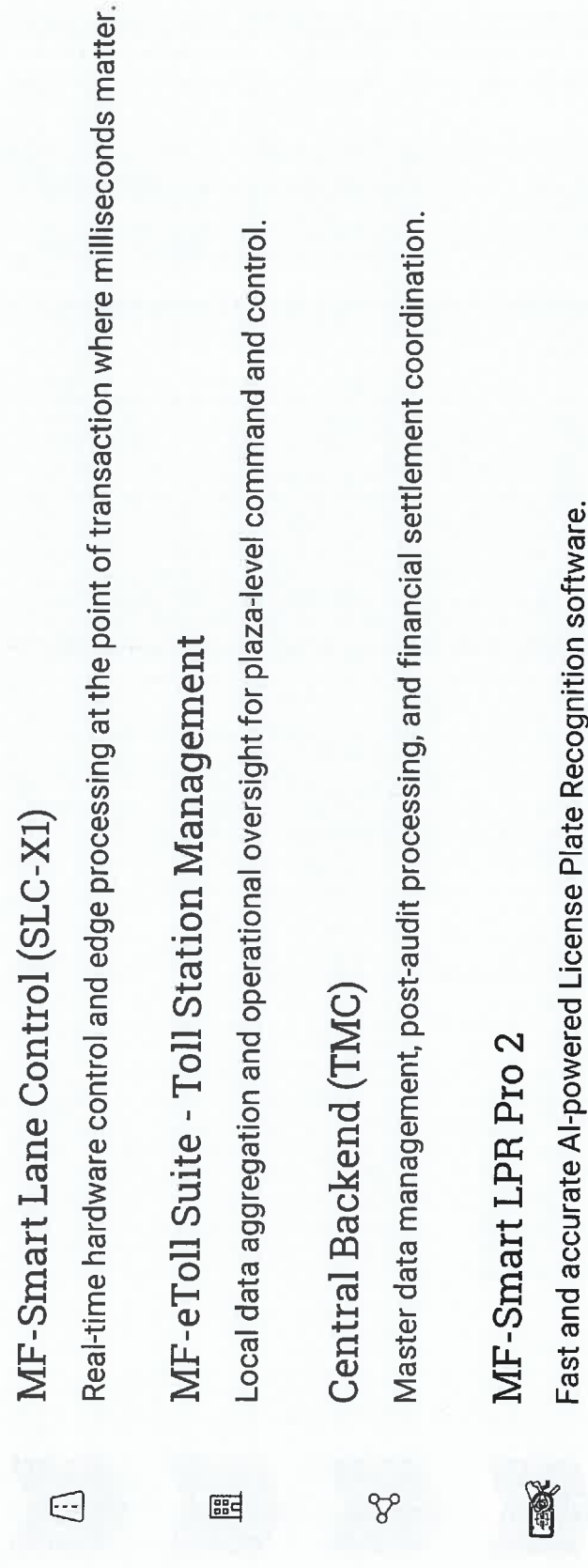
MEFO DATA SMART TOLLING SYSTEM

Next-generation software solution empowering modern infrastructure with
AI and real-time data synchronization for seamless, secure toll operations.



Multi-Tier System Architecture

Our Electronic Toll Collection software is engineered as a robust, multi-tier ecosystem designed for high-speed expressways and urban toll plazas. The architecture ensures zero-downtime operations and seamless data flow from the physical lane to central management.



Smart Lane Control Module

High-Speed Execution

Where milliseconds matter: integrated automated logic for seamless vehicle processing.

- Barriers, loop detectors, and laser separators
- Real-time RFID reader interface
- Variable message sign control
- Video overlay with dynamic timestamping



Autonomous Operation

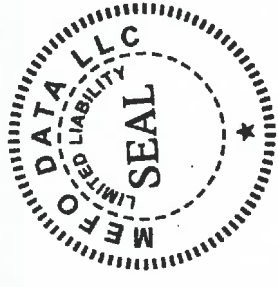
Local whitelist/blacklist verification enables continuous processing during network outages

Peripheral Communication

Real-time interface with all lane hardware components for unified control

Video Overlay Technology

Transaction data overlaid on live video for complete audit trail visibility



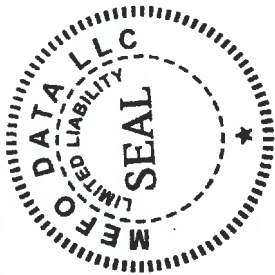


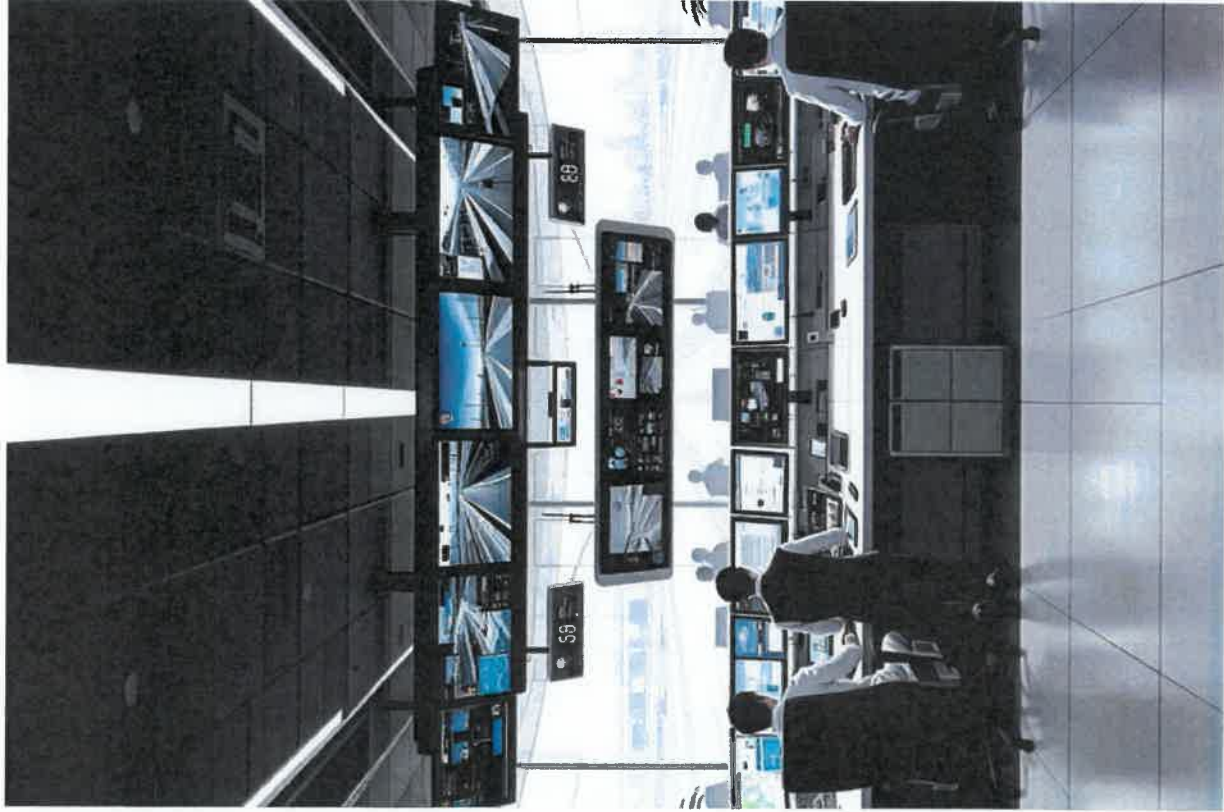
AI-Powered License Plate Recognition

99%+ 200 4+

Accuracy Rate	km/h Processing	Plate Types
Deep learning engine delivers exceptional plate recognition precision	High-speed recognition for vehicles at highway speeds	Government, military, foreign, and private vehicle classifications

Our vision AI replaces manual entry with optimized deep learning for specific plate formats. Advanced OCR handles challenging conditions including low light, rain, and partially obscured plates—delivering reliable identification when it matters most.





Plaza Management & Real-Time Monitoring



Real-Time Dashboard

Live visualized analytics displaying transaction volume, revenue trends, and traffic distribution across all lanes with instant hardware health status alerts.



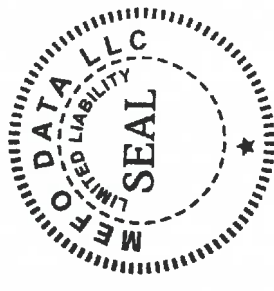
Background Sync Service

Silent data aggregation collecting transaction records and high-resolution images, with bidirectional synchronization to central backend systems.



Instant Alerts

Automatic notifications for any hardware failure including offline cameras, reader malfunctions, or communication disruptions for rapid response.



Post-Audit & Reconciliation



01

Smart Post-Audit Interface

User-friendly verification system for auditors

02

Discrepancy Resolution

Tools to correct classification errors

03

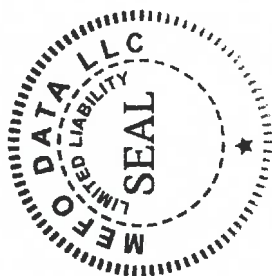
Financial Reconciliation

Automated matching with bank settlements

Ensuring Financial Transparency

Comprehensive verification tools guarantee operational integrity and accurate financial processing.

- Visual comparison of AI-recognized plates vs. captured images
- Manual correction tools for tag-plate mismatches
- Automated classification dispute resolution



System Strengths & Integration

Security & Compliance

SSL/TLS encryption for all data transfers with role-based access control ensuring secure operations and data protection.

WIM Integration

Seamless connection to weigh-in-motion systems automatically blocking overloaded vehicles at entry gates for safety compliance.

API/SDK Ready

Open architecture enables integration with third-party payment providers and government traffic management centers.

Zero Downtime

Redundant systems and autonomous lane operation

Scalable Design

Architecture adapts from single plazas to highway networks

Financial Accuracy

Automated reconciliation eliminates manual errors

