MATRIX®

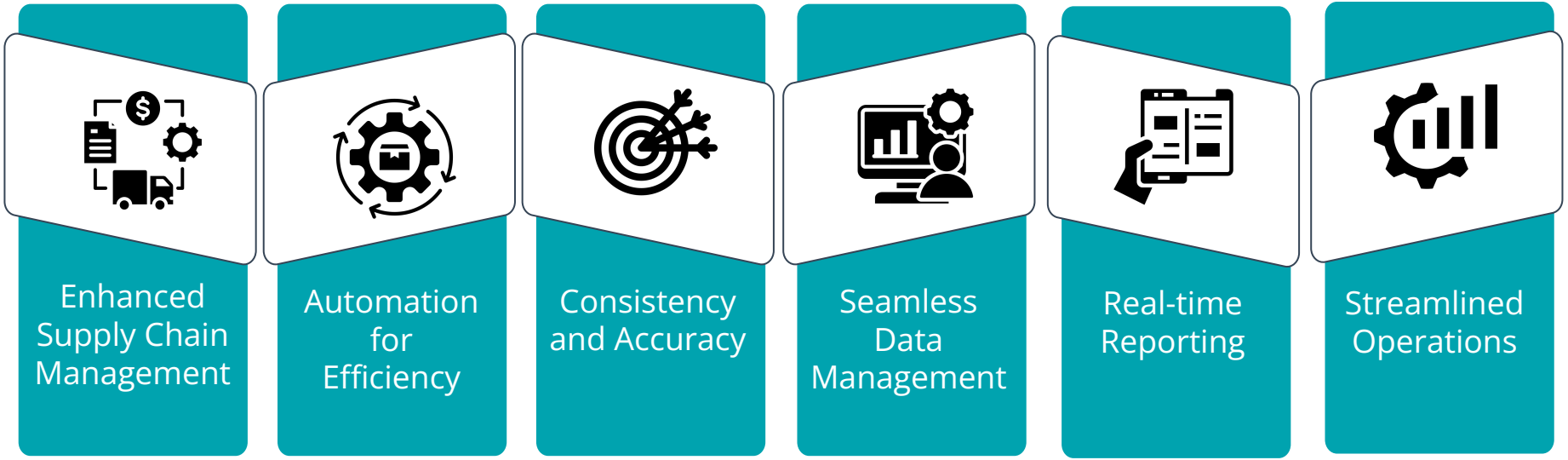
TELECOM | SECURITY

Researched, Designed &
Manufactured in
INDIA

50+ Countries | 1M+ Customers

Matrix
Weighbridge Integrated Solution

Why Weighbridge Management System?

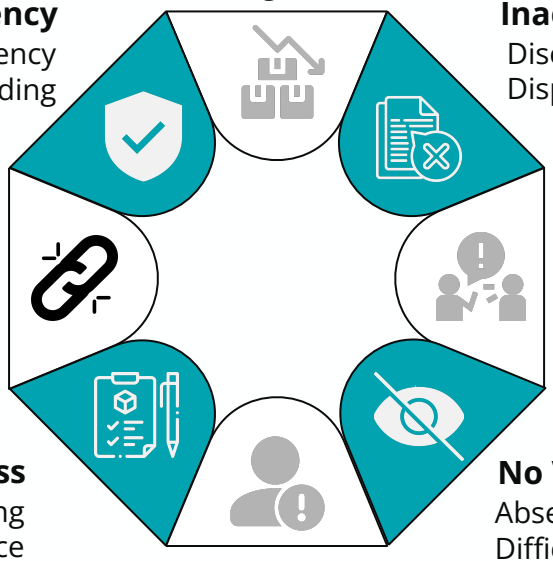


Challenges: Conventional Weighing Scales

Goods Pilferage
Loss of Material while Loading
Unloading and Transit

Security and Transparency
Lack of the Necessary Security and Transparency
Features to Ensure Accurate Loading

Inaccurate Quantity Claims
Discrepancy in Quantity
Dispatched and Received



Integration Challenges
Difficulty in Integrating Conventional
Weighbridge to Software Systems

Disputes and Relations
Straining Business Relations
Due to Discrepancy

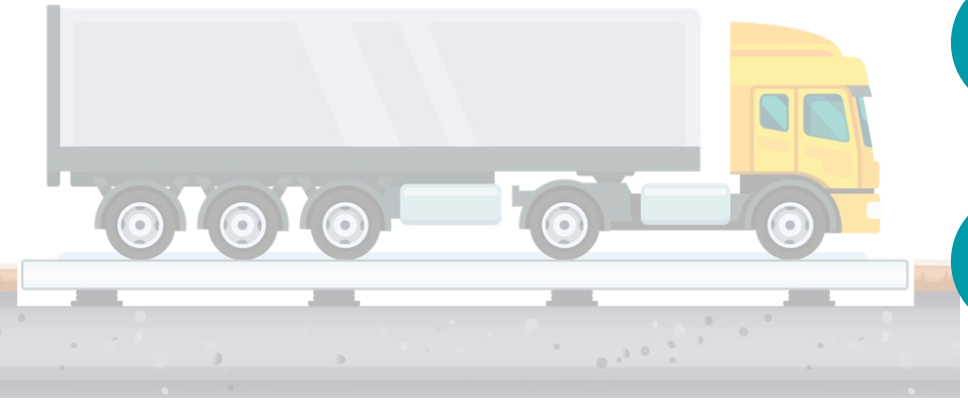
No Proof of Loading Process
Poor Documentation of the Loading
Process and Lack of Evidence

No Visual Evidence
Absence of Proof Makes it
Difficult to Resolve Conflict

Scope of Errors
Errors due to Manual
Record Keeping

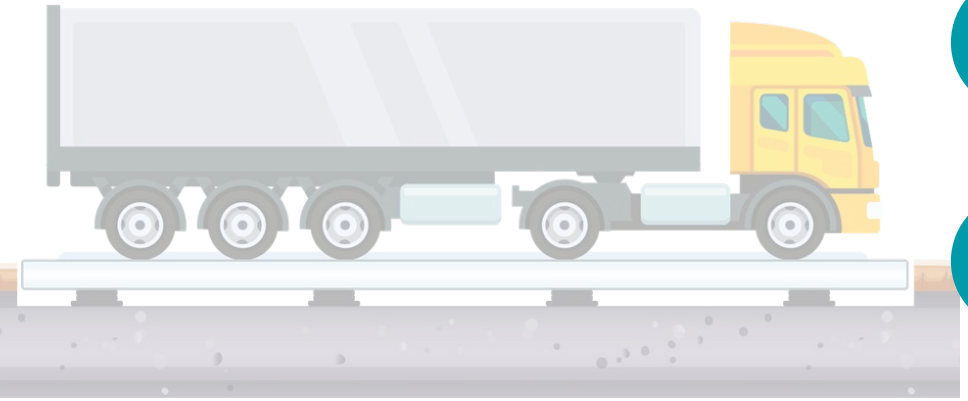
KEY DIFFERENTIATORS

Key Differentiators



- Single Solution for all Weight Management and Surveillance Needs
- Avoid Dependency on Weighbridge Terminal Brand, API Database, RS232 String Format
- Image-based Evidence of Vehicle – License, Material – Receipt, Driver, and Surrounding Conditions.
- Digital Records of License Plate and Weighment Transactions, Receipts

Key Differentiators



End-to-end Automation of Daily Operations - Direct Data Import/ Export to SAP/ERP

Fleet and Driver Authorization – Integrated to Matrix Access Control to give easy access to Authorized personnel

Access Control – Prevent Entry of Trespassers

Automated SMS alerts and Emails of Weigh-slip

KEY FEATURES

Customizable Transaction Receipt Parameters

- Customize Weighbridge Transaction Details
- VMS Supports 15 Fields for Entry and Exit
- Custom Fields for Static, Manual, Event, and Weight inputs
- Logical Operations Between Fields, Like Net Weight Calculations
- Automated Image Evidence with 5 Snapshots for Entry and Exit

Advantage

Transaction Receipts with Visual Proof for Entry and Exit

Benefit

Mitigate Fake Weighing, Duplicate Weighing, and Manipulation Risks

ANPR-Based
Access Control Authorization

- ANPR Verifies Vehicle Identity Using Digital License Plate Recognition
- Whitelisting/Blacklisting Based on Authorized Records and Database
- Barrier Access Is Granted upon Authorization Confirmation
- User Details from ANPR Linked to Evidence Receipt Directly

Advantage

Exclusive Access to Authorized Vehicles within the Premises

Benefit

Reduced Risk Of Fraud and Data Tampering through Strict Verification

Access Control Using MATRIX ACTA - COSEC Solution

- Parent Platform of Weighbridge Application – Matrix VMS - SAMAS Provides DB Level Integration with COSEC Solution
- RFID or Biometric Solution can be used for Vehicle and User (Driver) Authentication before they Enter the Premises

Advantage

RFID and Biometrics Enhance Security by Preventing Unauthorized Premise Access

Benefit

Ensures a High Level of Security, Preventing Unauthorized Access to the Premises

Smart Search and Investigation

- SMART CLIENT accesses SAMAS Database, Aiding Efficient Analysis of Transactions and Weighbridge Data
- Easily Search and Retrieve Records by Custom Transaction Parameters for Focused Analysis

Advantage

Quick Search by Transaction ID and Bookmarks Simplifies Suspicious Activity Analysis

Benefit

Relieve Memory Burden with Easy Transaction Search Without Recalling All Details

Seamless SAP/ERP Integration

- Incorporate Conventional Weighbridge Software Data into MATRIX VMS through Shared GUID, Merging Evidence-based Fleet and Weighbridge Transactions
- Utilize Triggered Events to Import and Merge Fleet, User, and Weighbridge Records with Surrounding Vehicle Snapshots, Ensuring Accurate Data-evidence Integration

Advantage

Automated Data Entry in SAP

Benefit

Smart Integration Automates Internal Processes Avoiding the Cumbersome Process of Manual Data Entry

Other Features

Terminal Designing: Combined or Separate Entry and Exit Transactions to Meet the Specific Requirements

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Station Designing: Entry/Exit Weight Information - Analytics, Access, Manual, Custom Events

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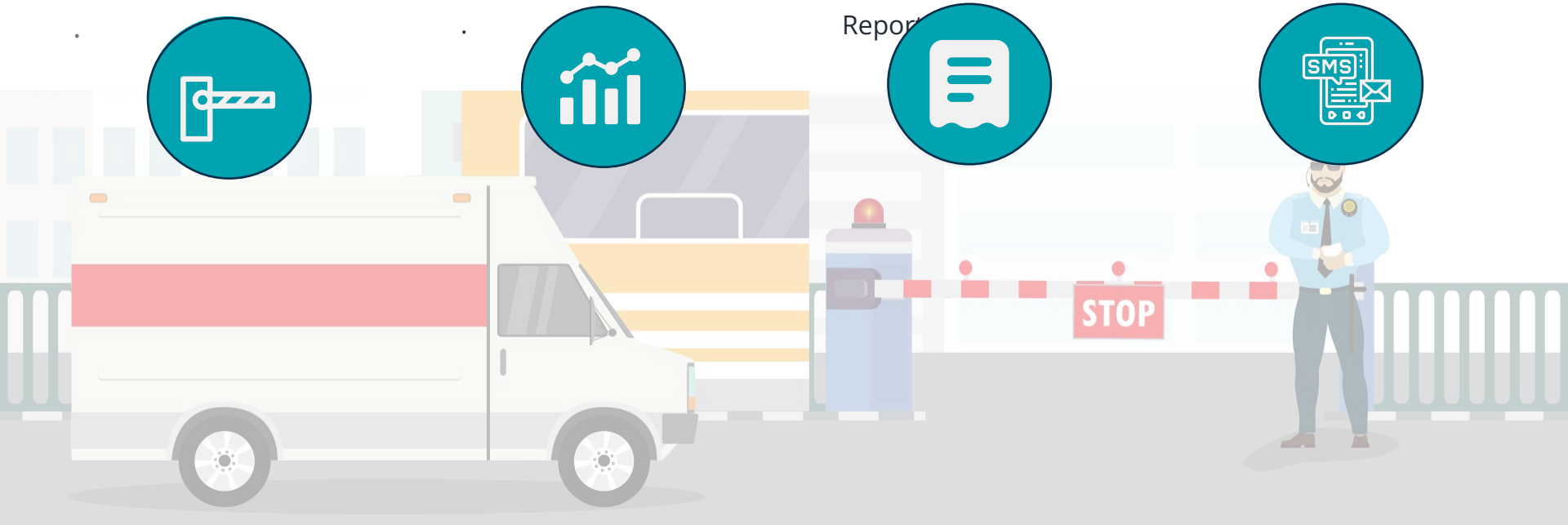
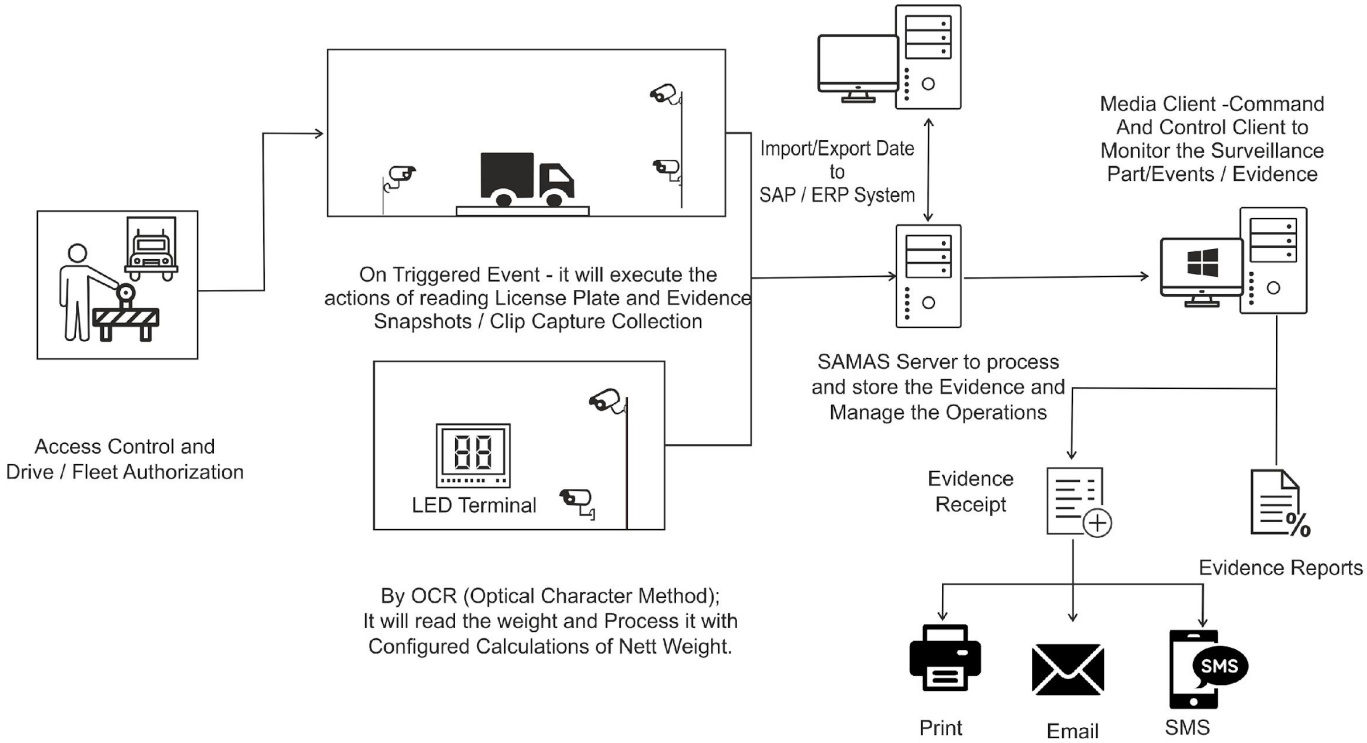
Unique Receipt ID Links Entries-Exits; User-defined Challan IDs for Simplified Data-control and Repor

Evidence Receipt Sent as Notification (SMS/E-mail) for Realtime Transparent Updates



Building Blocks



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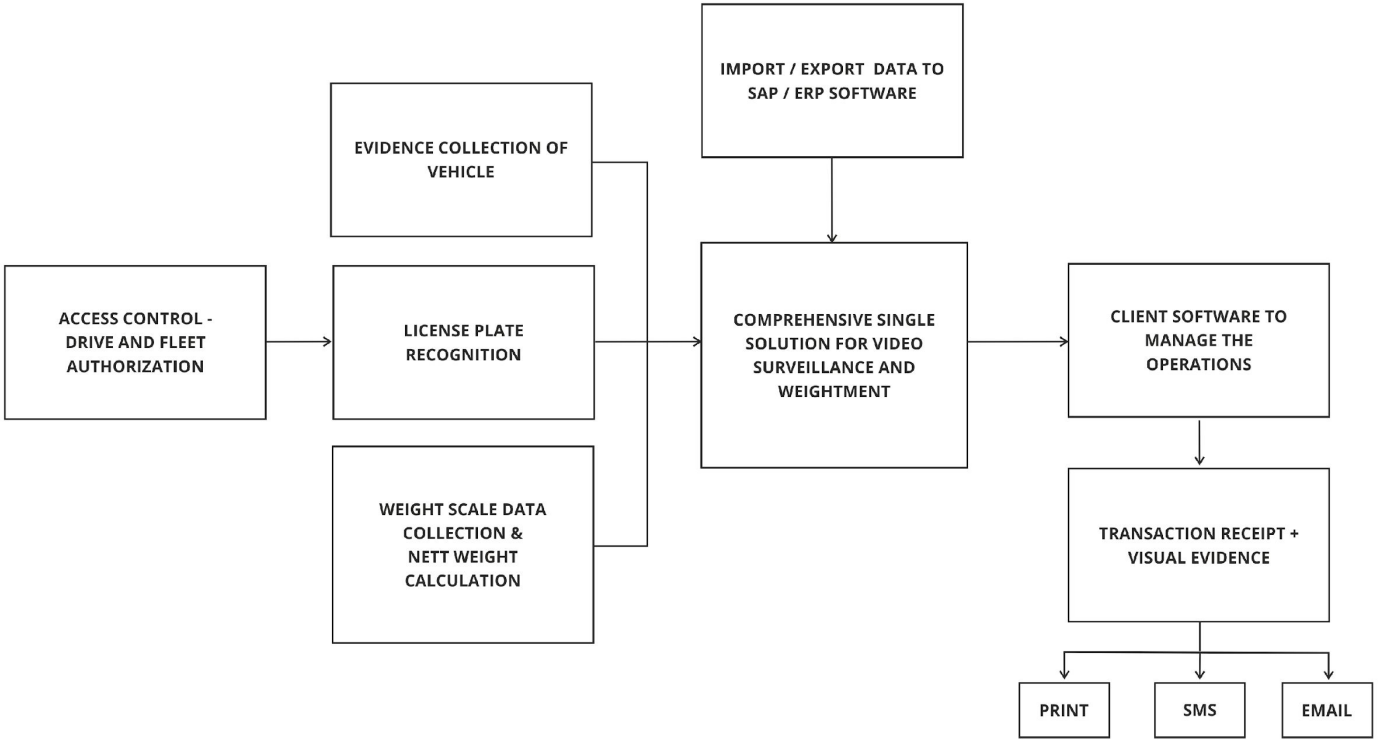
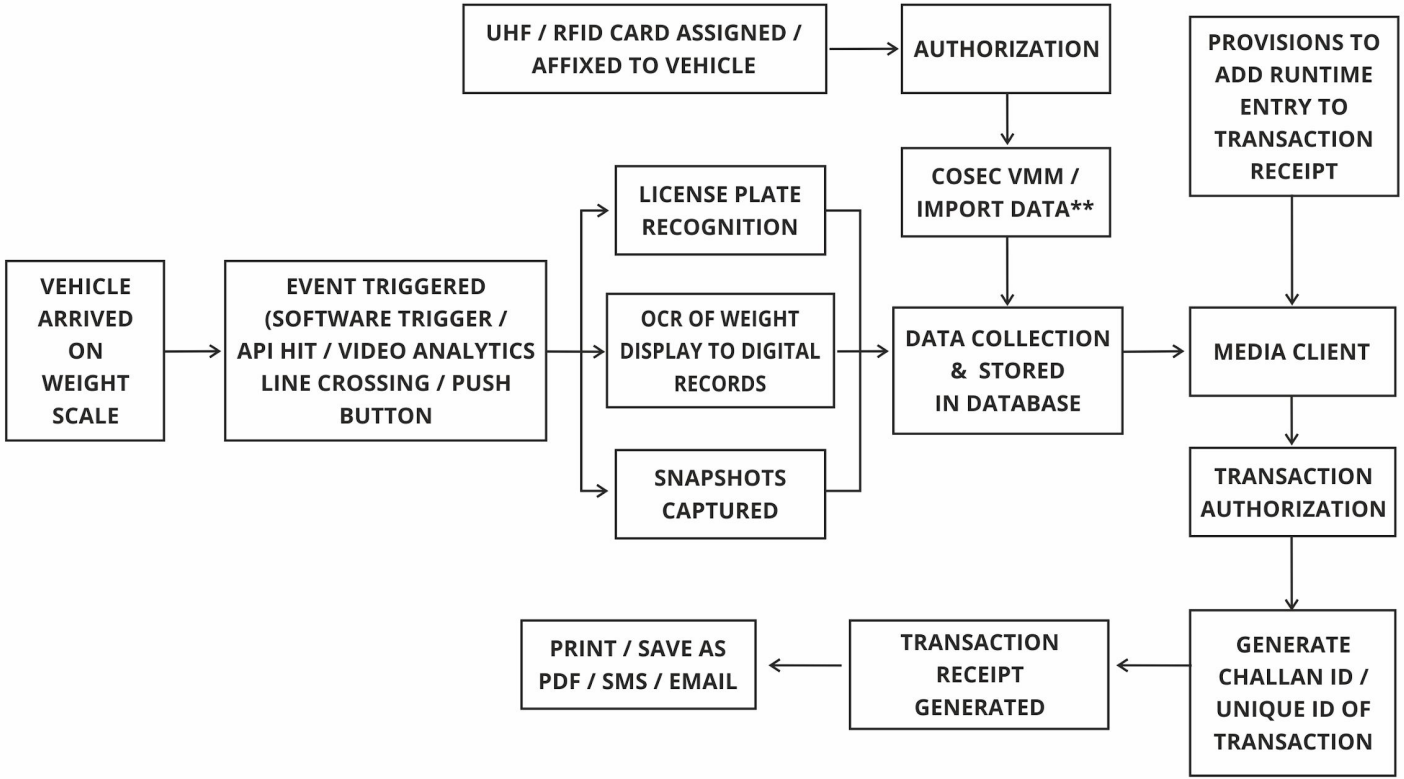
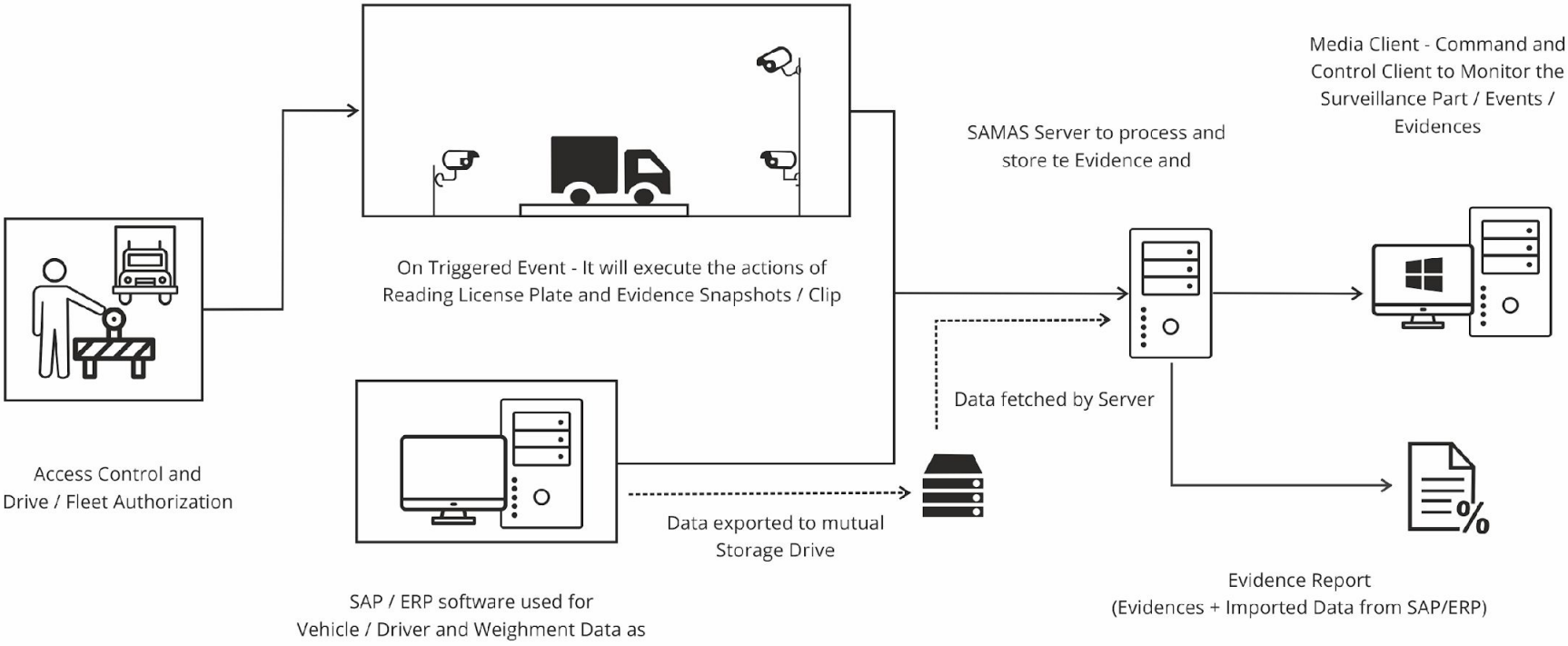


Comprehensive Solution



SAP/ERP System



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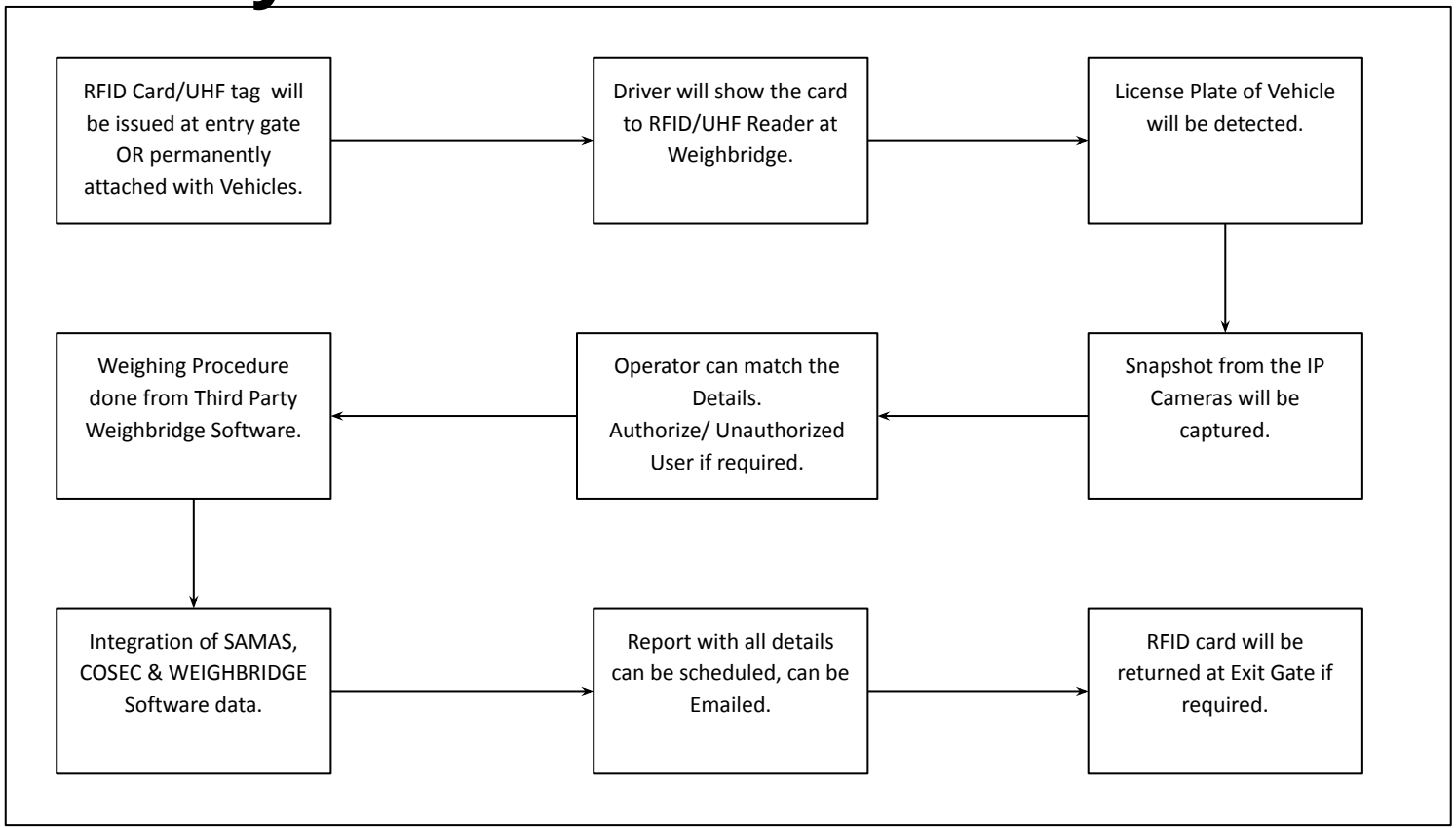


Matrix Weighbridge Integration Workflow

- Vehicle Entry
- Vehicle Counting

Access Control

- Vehicle Positioning on weighbridge (Trip wire and ANPR)

Vehicle Detection

- Vehicle Number Snapshot
- Driver Snapshot
- Material Snapshot
- Weighbridge Snapshot

Snapshots

- Collect GRN Data from ERP or Enter Manually

GRN Data

- Create Evidence
- Bookmark Video Recordings

Evidence Record Creations

- Send Evidence Data to ERP

Data Repository

- Print Evidence Record

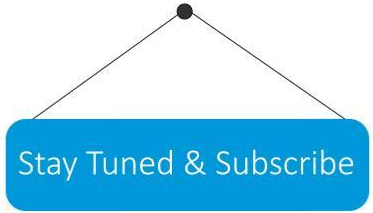
Evidence Receipt

- Periodic Report Generation

MIS Reports

Who We Are

1 Million+	5000+	60+	40+	30+
Customers	Partners	Products	Countries	Awards



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