



TRANSPORT REGULATION TECHNOLOGY

Integrated Cross-Border Management Platform

A complete digital platform for road transport regulators — permit issuance, operator compliance accreditation, digital permits, law enforcement verification and business intelligence, delivered as one integrated system.

One system for the full regulatory value chain

Cross-border road transport regulators manage a demanding mandate: issuing permits, accrediting operators, enforcing compliance on the road and reporting to national and regional stakeholders. Our platform digitises this entire value chain — from the operator's first online application to the roadside verification of a digital permit — on a secure, web-based architecture designed for government-scale operations.

Permit Management

End-to-end online application, adjudication and issuance of temporary and long-term permits across freight, bus, taxi, tour and cabotage categories — with renewals, amendments, duplicates and vehicle replacements handled in-system.

Operator Compliance & Accreditation

An intelligent, risk-based regulatory module: operator registration, auditing, certification with a grading system, risk profiling and a points-demerit engine — quality regulation aligned to regional accreditation frameworks.

Digital Permits

Cryptographically signed digital permits on the open ISO/IEC 20248 standard — issued online, carried on a mobile device or printed remotely, and verifiable by law enforcement even without network coverage.

Systems Integration

An enterprise service bus / API gateway connecting the platform to national vehicle, revenue, company-registry and identity systems, financial packages and directory services — one consistent integration pattern for every interface.

Reporting & Business Intelligence

Print-ready operational reports, executive Power BI dashboards and self-service data extracts — decision support at operational, tactical and strategic levels, including secure bulk printing on face-value documents.

Workflow Automation

Automated business processes with enforced rules, role- and permission-based access, and single sign-on through enterprise directory integration — so every application follows the approved process, every time.

Built on a proven three-tier architecture: an integration layer for visibility across the transport domain, an intelligence layer for risk and decision support, and a presentation layer that puts the right information in front of every user.

From paper permits to trusted digital documents

Digital permits replace vulnerable paper documents with cryptographically signed certificates that cannot be forged, altered or duplicated — reducing waiting times at border posts, cutting roadside inspection times and giving regulators real-time visibility of every permit in circulation.

- 1

Open-standard certificates
Permits are issued as ISO/IEC 20248 digital signatures — an open international standard, not a proprietary lock-in — rendered as a compact QR code on screen or paper.
- 2

Offline roadside verification
The enforcement app verifies and re-creates the full permit from the code itself — no network connection required — so inspections proceed even in remote border areas.
- 3

Mobile apps for every role
Operators and consultants apply for, carry and manage permits from their phones; officials verify them in seconds. Milestone notifications arrive by e-mail or SMS.
- 4

Remote & secure printing
Permits can be printed off-premises against central authentication services, with secure bulk printing on face-value paper where physical documents are still required.
- 5

GIS route management
Routes are captured and managed graphically during the application process, with a geographical information system underpinning route amendments and gazetting.
- 6

Vehicle recognition ready
Interfaces for automated vehicle recognition report on permits per vehicle, inland and at border posts — enabling electronic law enforcement at scale.

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Online applications and permit services, at the operator's convenience

Omni-channel

Web, mobile and kiosk channels, with manual processing for customers not yet digital

Region-ready

Designed for information sharing across regional agencies and deployment in other states

A partner with a track record of delivery

PraxisKZN brings decades of experience building and implementing enterprise solutions for government bodies, parastatals and private sector clients — customised software, systems integration, document management, workflow and business intelligence, delivered and supported end to end.

Level 1 B-BBEE

Fully empowered supplier, maximising your procurement recognition.

Enterprise scale

Systems serving from ten to ten thousand users, in production across the public and private sectors.

Proven delivery

An extensive record of enterprise solutions implemented successfully and supported for the long term.

How we deliver

- Agile development methodology with certified Prince II project management
- Business analysis grounded in BABOK principles
- Structured change management — from strategy and planning through implementation to sustained adoption
- User acceptance testing integrated with training
- Intensive support during releases

Support & training

- Ongoing application support and maintenance with agreed response targets
- Helpdesk with online and telephonic support
- System administrator training, manuals and videos
- End-user training workshops and video content accessible across the region
- Continuous enhancement on a time-and-materials basis

Let's talk about your regulatory platform

Strategic innovation for an evolving world

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