

Vehicle Compliance Module

Terminology & Legal Grounding (READ FIRST)

“Green Sticker” usage in Australia

- Used only in NSW
- Informal name for CTP (Compulsory Third Party) Insurance
- Official purpose:
 - Covers injuries to people
 - Does not cover property or vehicle damage
- Required to register a vehicle in NSW
- Without CTP → no registration → vehicle illegal on the road

System Rule

- Compliance Type = CTP Insurance
- “Green Sticker / Green Slip” = UI label only (NSW-specific language)
- Never model “Green Sticker” as a standalone legal concept

Compliance Type Definition: CTP Insurance

- Purpose: Personal injury liability coverage
- Scope: People, not property
- Required for: Vehicle registration (state-dependent)
- Evidence: Policy document / green slip (NSW)

If you don't lock this down, your system will misrepresent the law.

1. Compliance Tracking (FOUNDATION)

Business Feature

Centralised tracking of all legally required vehicle compliance items, including:

- CTP Insurance (Green Slip – NSW)
- Vehicle Registration
- Roadworthiness / Periodic Inspections
- Safety certifications (vehicle-type dependent)

Each vehicle always has a live compliance status.

Core Principle

Compliance is law-driven, not user-defined.

2. State & Vehicle-Type Based Compliance Rules (NON-NEGOTIABLE)

Why this exists

Australian compliance is state-based.

A truck in NSW ≠ a truck in VIC.

If you ignore this:

Your compliance module is lying to users.

Implementation

- Define a Compliance Master List (admin-controlled)

- Assign required compliance automatically based on:
 - Vehicle type (truck, light commercial, etc.)
 - State of operation

State differences may include:

- Inspection frequency
- Certification standards
- Accepted inspection providers
- Required evidence/documentation
- Renewal logic

Example: NSW Truck

- State: NSW
- Requires:
 - Heavy Vehicle Inspection (HVIS / AIS)
 - Annual roadworthiness check
 - Inspection certificate as evidence

Example: VIC Truck

- State: VIC
 - Different inspection standards
 - Different renewal logic
 - Different accepted documentation
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3. Compliance Records per Vehicle (SYSTEM-DRIVEN)

Each required compliance item generates a record with:

- Issue date
- Expiry date
- Linked evidence document
- Status (computed, never manual)

Critical Rule

Users do not mark something “compliant”.
The system decides.

This prevents:

- Fake compliance
 - Lazy shortcuts
 - Legal exposure
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4. Roadworthiness / Inspection Management (CORE DIFFERENTIATOR)

Business Feature

Track mandatory vehicle inspections:

- Inspection date
- Validity period
- Evidence upload

- **Renewal reminders**

Implementation

- **Treat roadworthiness as a standard compliance type**
- **Define:**
 - **Mandatory renewal frequency (e.g. 12 months)**
 - **Alert rules**
- **Require document upload to activate compliance**

Optional but strongly recommended enforcement

- **If expired:**
 - **Vehicle marked Non-operational**
 - **Dashboard flags vehicle as not deployable**

This is where your product stops being cosmetic and becomes real compliance software.

5. Automated Expiry Monitoring & Alerts (NON-OPTIONAL)

Business Feature

Prevent:

- **Fines**
- **Grounded vehicles**
- **“We forgot” excuses**

Implementation

- **Daily background job checks expiry dates**
- **Alert thresholds:**
 - **30 days**
 - **14 days**
 - **7 days**
 - **Expired**

Alert channels

- **Email**
- **In-app notifications**
- **(Future) SMS**

Escalation logic

- **Expiring → notify fleet manager**
- **Expired → notify management + dashboard flag**

If alerts aren't automated, this feature is trash.

6. Compliance Status Engine (THE BRAIN)

Business Feature

Each vehicle has a real-time status:

-  **Compliant**

-  **At Risk**
-  **Non-Compliant**

Used everywhere:

- Dashboards
- Reports
- Alerts
- Operational decisions

Implementation

- Status calculated dynamically based on:
 - All required compliance items
- Worst-case rule:
 - One expired item → vehicle non-compliant
- Cached for performance, recalculated on change

This is what lets you say:

“You always know which vehicles are legally safe to operate.”

7. Document & Evidence Management (AUDIT PROTECTION)

Business Feature

Secure storage of compliance evidence, not random files:

- Inspection certificates

- Insurance policies
- Registration proofs

Implementation

- Document required per compliance record
- Version history retained
- Metadata stored:
 - Uploaded by
 - Upload date
 - Linked compliance item

Critical Rule

Compliance without evidence = incomplete
(optional strict mode, but recommended)

This is what saves customers during audits.

8. Audit Trail & Accountability (ENTERPRISE-READY)

Business Feature

Full visibility of:

- Who uploaded documents
- Who updated dates
- When changes occurred

Implementation

- **Immutable audit logs for:**
 - **Compliance creation**
 - **Updates**
 - **Deletions**
- **Read-only access for auditors**

Without this, serious customers won't touch you.

9. Dashboards & Compliance Health (DECISION SUPPORT)

Business Feature

Visual overview of fleet compliance:

- **Total vehicles**
- **Non-compliant vehicles**
- **Upcoming expiries**
- **Risk hotspots**

Implementation

- **Fleet-level compliance score**
- **Filters by:**
 - **State**
 - **Vehicle type**

- Compliance type
- Traffic-light indicators (green / amber / red)

Executives don't read tables.

They read colours.

10. Compliance Reporting (REGULATOR-READY)

Business Feature

Generate reports for:

- Internal reviews
- External audits
- Insurance checks
- Regulatory inspections

Implementation

- Pre-built report templates:
 - Fleet compliance summary
 - Vehicle compliance history
- Export formats:
 - PDF
 - CSV

This turns your SaaS into a defensive asset.

11. Role-Based Access Control (RISK MANAGEMENT)

Business Feature

- Fleet managers manage compliance
- Drivers view assigned vehicles only
- Admins configure compliance rules
- Auditors get read-only access

Implementation

- Role-based permissions
- Write access strictly limited

This prevents accidental or malicious damage.

12. Monetisation Logic (BUILT-IN, NOT AN AFTERTHOUGHT)

Business Feature

Compliance is a premium risk-management feature.

Implementation

- Feature flags by subscription tier
- Limits by:
 - Number of vehicles
 - Compliance types

- **Notification channels**

Never give compliance away for free.

Final Reality Check

If your system:

- Just stores documents ✗
- Has no expiry logic ✗
- Relies on users to remember ✗

That's not compliance software.

That's Dropbox with a UI.

If you build:

- Rule-driven compliance
- Automated alerts
- Audit-grade evidence
- Clear risk visibility

You can confidently sell this as:

Fleet Compliance & Roadworthiness Management for Australian Businesses