

Technical specification

Vehicles, trackers, drivers, the driver app, trips, defects, the workshop, fuel, toll and parking, compliance, summonses, cost, reports, security, data and service for asasii fleet.

Deployment

Where it runs	The organisation's own environment, such as its own cloud account, run by its own IT
Licence	The organisation owns the software outright
Installed by	idataraya, who installs it, customises it and keeps it current
Data	The organisation's, in its own environment
Consoles	A fleet console for the fleet office, a workshop console for a contracted or in-house workshop, and a finance console, on the same records
Driver app	For Android and iOS phones, in Bahasa Malaysia and English
Units	Distances in km, fuel in litres, amounts in RM

Vehicles

Vehicle list	Plate, vehicle, type, today's driver, odometer, status, road tax, Puspakom and next service, for the whole fleet
Status	On the road, at the depot, in the workshop or grounded, from the tracker and the defect list rather than a field someone updates
Dates	Amber at 45 days before expiry, red at 14
Vehicle record	One page per vehicle, with tabs for trips, fuel, maintenance, defects, documents, costs and the tracker
On the record	The odometer read by the tracker, cost per km, fuel use, days off the road, road tax, insurance, Puspakom, the fuel card and the service history

Trackers

Supply	Bought by the organisation from the supplier it prefers; idataraya does not sell or supply trackers
Protocols	asasii fleet reads the common tracker protocols
Tracker list	Model, firmware, last position, ignition and status for every tracker

Offline tracker	A tracker offline over 24 hours on a vehicle that moved is raised as a defect on the vehicle
Live map	Vehicles on a map, refreshed every 30 seconds

Drivers

Driver list	Staff number, licence class, expiry, points, today's vehicle and whether the pre-trip check is done
Driver record	Trips, checks, fuel, summonses, documents and training, in the same words the driver app shows the driver
Licence	Class, number, expiry, points and medical validity
Points	From summonses matched to the driver, recorded on acknowledgement
Licence renewal	Chased in the app 60 days before expiry by default; a driver with an expired licence is not assigned
Staff list	Can be read nightly from the organisation's HR system

The driver app

Sign-in	Staff number and PIN; the phone is bound on first sign-in, and the PIN is reset from the console, never by SMS
Languages	Bahasa Malaysia and English, with every string translated, including the check list
Today	The vehicle, whether the check is done, the trips, the fuel card limit, and anything the office is asking
On a trip	The next stop and one button per stop; directions stay in the phone's own maps app
After a trip	Distance, stops, toll and driving events in plain words
Fuel	The driver adds the odometer and a receipt photo to a fill, and answers a question about a fill with no trip
Summons	The notice and the tracker evidence, acknowledged with one tap or marked as someone else
Without signal	Checks and defects queue on the phone until there is signal

The pre-trip check

Check list	Set per model, for example 14 items for a van and 18 for a lorry
Each item	OK or fault, one tap each, with a description and a photo on a fault

Odometer	Read from the tracker
Unsafe fault	Grounds the vehicle from the phone and tells the fleet manager
Without a check	Movement is logged, shown on the fleet manager's home screen and reported daily by driver; it is not blocked

Trips

Sources	Planned by the office or logged by the tracker, on one list
Unplanned movement	A row with a question for the driver, not an alarm
Working day	Set by the fleet; movement outside it is flagged
Trip record	A timeline from the tracker and the app (the pre-trip check, ignition, odometer, stops and tolls), and the route driven against the route planned
Trip costs	Toll, parking and estimated fuel
Driving events	Harsh braking, speeding and idling per trip, rolled up per driver by month; not scored

Defects and maintenance

Reported	In the pre-trip check or at any time in the app, with photos, and by the workshop
Severity	Decided by the app from what the driver picked: unsafe, minor or cosmetic
Unsafe	Grounds the vehicle on report; the fleet manager releases it with a reason, recorded in the audit log
Minor	Books the workshop
Cosmetic	Goes on the vehicle record and waits for the next service
Maintenance plans	Per model, setting the intervals once; a new vehicle inherits its plan on registration
Service due	By km from the tracker or by date, whichever comes first

The workshop

Workshop console	For a contracted or in-house workshop: jobs as a board or a list, the job card, bookings, Puspakom inspections, parts and invoices
Job card	The defect with its photos, the work, the estimate, the parts, the booking and the collection
Accepting a job	Updates the fleet console and the driver's app at once

Bookings	From the service plan and defects; the workshop confirms a bay and a time
Puspakom	Handled as a job: the pre-inspection service, the booking and the certificate uploaded to the vehicle record
Parts	The workshop's own list, so a booking is not made before the part is in; the fleet sees the expected date
Invoices	Raised from the job card as MyInvois e-invoices, landing on the vehicle's cost record and in finance's queue
What a contractor sees	Its own jobs, the vehicle's history at that workshop and its own invoices; not other workshops, drivers, trips or costs

Fuel, toll and parking

Fuel card statements	Imported by file from the card programmes, for example weekly by SFTP
Matching	Every fill matched to a trip and an odometer reading from the tracker
Unmatched fill	Asked of the driver in the app first; to the fleet manager after 48 hours without an answer, or at once if the answer is no
Cards	Bound to a vehicle, not a driver, each with a limit; spare cards locked
Consumption	Computed against the tracker, not declared; litres per 100 km by vehicle and by driver against the fleet average
Toll and parking	The toll operator's statement, imported and matched to trips by plate and time
Unmatched charge	Waits for finance with the nearest trip suggested (approve, query the driver or hold); never written to a vehicle by guess

Compliance

Per vehicle	JPJ road tax, Puspakom inspection and insurance dates
Renewals	Raised to a named person before expiry: road tax 45 days and Puspakom 30 days out by default
On expiry	A vehicle whose road tax or inspection has lapsed is grounded
Insurance	One fleet policy; a vehicle added mid-term is endorsed within the days the fleet sets, or does not leave the depot
Records	The receipt and the JPJ or Puspakom document kept on the vehicle record
Rules	Shown beside the list and set by the fleet

Summonses

Kinds	AES, PDRM and council summonses
Received	Scanned in by the fleet admin
Matching	To the trip by plate, date and time; the trip names the driver
Evidence	The notice, the trip record and the tracker positions on one page
Actions	Name the driver, dispute or pay, one click each, each in the audit log
The driver	Sees the notice and the evidence in the app, and acknowledges or says it was someone else
Recovery	HR's decision under the organisation's policy, outside the system

Cost and finance

Cost per km	Fuel, maintenance, toll and parking, insurance and road tax, and depreciation, over the km the tracker recorded
Comparison	Against the fleet average for the same vehicle type
Allocation	Nothing allocated by hand; no office overhead or driver wages
Overview	Fleet cost to date by kind, cost per km against last month and the budget, and the vehicles that cost the most, with the reason
Ledger	Costs exported monthly to the ledger by API, by account
Depreciation and book value	From the ledger's own schedule by API; the fleet keeps no second one
Fines	Paid in the discount window and posted to a recoverable account, with the driver named
Insurance	The fleet policy and claims on the vehicle record; a claim opens from a defect or a trip event with the tracker data attached
Replacement	Repairs and cost per km against book value, per vehicle, updated monthly; the decision stays with finance and the fleet manager

Reports

Ready to run	Vehicles moved without a pre-trip check, cost per km by vehicle, fuel consumption by driver, utilisation, driving events by driver, the compliance calendar, defects and downtime, and summonses and points
Scheduled	Sent on a schedule as xlsx and PDF
API	Every report is also a call on the API with the same filters

Security

Office staff	Single sign-on with MFA
Contracted workshop	Email sign-in with MFA
Drivers	Staff number and PIN on a bound phone
Roles	Fleet manager, fleet admin, trip planner, finance, workshop and driver, each with its own access
Audit trail	Every write, with who, when and what, kept for seven years

Data and integration

Tracker positions	Kept 12 months by default, in the organisation's environment
Trips and costs	Kept seven years
Driver location	Shown to the office only on duty
HR	The staff list read nightly from the HR system
Ledger	Costs exported by API; depreciation and book value read by API
API	Full and documented

Service

Agreement	Yearly, covering releases, security patches, tracker protocol updates, support and incident response; hosting stays with the organisation
Updates	Software updates, security patches and tracker protocol updates under the yearly agreement
Fee	A yearly fee; no fee per vehicle, per tracker or per position
Without the agreement	The organisation may keep running the software

asasii fleet is a product of idataraya Sdn Bhd (1263428-K), Kuala Lumpur. Deployed in the client's own environment, customised and maintained by idataraya. info@idataraya.com · fleet.asasii.com