

Total IFTA Compliance Platform

Virginia VRT Fee Exception Engine

Road Tax on Motor Carriers — Intrastate Non-IRP Fee — Technical Specification

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Purpose of This Document

This document defines the complete technical specification for the Virginia Road Tax Fee (VRT Fee) Exception Engine within the Total IFTA Compliance Platform. It covers all Virginia VRT-specific exception types, detection logic, severity classifications, threshold values, user interface behavior, resolution paths, and escalation rules.

Virginia's Road Tax on Motor Carriers is unique among all the weight-mile tax obligations on the platform. For interstate carriers registered under IRP, Virginia's road tax is collected entirely through IFTA — there is no separate Virginia-specific filing, no separate account number, and no separate periodic return. However, for intrastate carriers NOT registered under IRP, Virginia assesses a flat annual fee per vehicle known as the Virginia Road Tax Fee (VRT Fee), collected at the time of vehicle registration through Virginia DMV. This is not a per-mile tax but a flat annual fee tied to the vehicle registration cycle.

This distinction means the Virginia VRT module operates very differently from all other weight-mile tax modules on the platform. The exception engine is not monitoring quarterly or monthly filing deadlines — it is monitoring annual vehicle registration renewals, vehicle eligibility status, and the IRP/non-IRP determination that drives whether the fee applies at all.

1. Virginia VRT Fee Background & Program Rules

1.1 Virginia's Two-Part Road Tax Structure

Virginia's Road Tax on Motor Carriers has two distinct components that must be clearly understood and tracked separately on the platform:

Part 1 — Interstate carriers (IRP members): Road tax is collected as a per-gallon fuel tax through IFTA. No separate Virginia account, no separate return, no separate fee. Interstate IRP carriers are fully covered by their IFTA license and quarterly return. The VRT Fee module does NOT apply to these carriers.

Part 2 — Intrastate carriers (non-IRP): An annual flat fee per vehicle known as the VRT Fee, collected at the time of vehicle registration by Virginia DMV. This is the fee the VRT exception engine tracks. It applies to qualifying intrastate vehicles that are NOT registered under IRP.

The platform must correctly classify every carrier and every vehicle as either IRP (road tax via IFTA) or non-IRP (road tax via VRT Fee) and apply the appropriate tracking module. A carrier who transitions from intrastate to interstate operations — or who registers under IRP — must be reclassified immediately, as this changes their Virginia road tax obligation entirely.

1.2 VRT Fee Eligibility Matrix

The VRT Fee applies to intrastate non-IRP vehicles meeting any of the following criteria. The platform must evaluate all three conditions independently for each vehicle with Virginia operations.

Vehicle Description	IRP Status	VRT Fee Required?
3 or more axles (any weight)	Non-IRP	✓ Yes — VRT Fee applies
3 or more axles (any weight)	IRP	✗ No — covered by IFTA
GVW or GCWR over 26,000 lbs (2 axles or more)	Non-IRP	✓ Yes — VRT Fee applies
GVW or GCWR over 26,000 lbs (2 axles or more)	IRP	✗ No — covered by IFTA
Under 26,001 lbs, 2 axles	Non-IRP	✗ No — below threshold
Under 26,001 lbs, 2 axles	IRP	✗ No — not applicable
IFTA-licensed intrastate (non-IRP)	Non-IRP	✓ Yes — VRT still applies

Important note per Virginia DMV: The VRT Fee applies even if the carrier is licensed under IFTA and includes the intrastate non-IRP vehicle on their IFTA tax return. IFTA licensing does not replace the VRT Fee for intrastate non-IRP vehicles.

1.3 Fee Amount & Payment

Fee amount: \$150 per vehicle per year for qualifying intrastate non-IRP property-carrying vehicles.

Passenger carriers: \$10 per vehicle per year (property carriers at \$10 annual operating authority fee — note: the VRT Fee of \$150 is the road tax component specifically).

Collection method: Assessed at the time of vehicle registration and collected as part of the vehicle registration renewal fee by Virginia DMV.

No separate periodic return: Unlike all other weight-mile tax states, Virginia does not require a separate quarterly or monthly filing. The obligation is settled annually at vehicle registration.

Renewal cycle: Tied to the individual vehicle's registration expiration date. Virginia vehicle registrations can expire in any month of the year depending on when the vehicle was originally registered.

Administering authority: Virginia Department of Motor Vehicles (DMV), Motor Carrier Services.

VIIM System: Virginia's online IFTA and IRP management system. Manages both IFTA and IRP credentials but is separate from the VRT Fee vehicle registration process.





1.4 Key Distinctions from All Other Weight-Mile Tax Modules

The Virginia VRT Fee is fundamentally different from every other weight-mile tax obligation on the platform:

- Annual flat fee — not a per-mile rate. No mileage-based calculation is required.
- No separate periodic return — no quarterly return, no monthly return. Fee is paid once per year at vehicle registration.
- No separate account number — the VRT Fee has no standalone account. It is tied to the vehicle registration.
- No separate filing portal — paid through Virginia DMV vehicle registration process, not a separate compliance portal.
- Vehicle-registration-cycle renewal — renewal dates are unique per vehicle and tied to the registration expiration, not a universal annual date.
- IRP exemption — carriers registered under IRP are fully exempt. Their Virginia road tax obligation is satisfied through IFTA. This is the most important determination the module must make.
- Intrastate-only applicability — this fee targets carriers operating exclusively within Virginia. Interstate carriers operating into Virginia are handled through IFTA.
- IFTA does not replace VRT — even if an intrastate non-IRP carrier is IFTA-licensed and includes intrastate Virginia vehicles on their IFTA return, the VRT Fee still applies to those vehicles.

2. Severity Level Definitions

All Virginia VRT Fee exceptions follow the same four-level severity framework used across the compliance platform. Because this module tracks annual vehicle registration rather than periodic tax filings, the exception patterns are different from all other weight-mile tax modules.

 CRITICAL	Action is blocked. Vehicle registration has expired with an unpaid VRT Fee, or a non-IRP vehicle is operating in Virginia without the fee having been assessed. Vehicle compliance certification is blocked.
 HIGH	Vehicle registration is approaching renewal and VRT Fee payment needs to be verified, or a vehicle's IRP/non-IRP classification has changed affecting VRT eligibility. Acknowledgment required.
 MEDIUM	Data quality warning or informational flag regarding vehicle classification, registration dates, or eligibility determination. No acknowledgment required.
 INFO	Background compliance awareness including registration renewal reminders and eligibility status confirmations. Does not interrupt any workflow.

3. Critical Exceptions — Action Blocked

The following exceptions indicate an immediate Virginia VRT compliance failure. Because the fee is tied to vehicle registration, an expired registration directly affects a vehicle's legal right to operate.

Exception Name	Field(s)	Threshold / Trigger	UI Behavior	Resolution Path
Vehicle Registration Expired — VRT Fee Unpaid	vehicle_registration_expiry, vrt_paid_status, current_date	current_date > vehicle_registration_expiry AND vrt_paid_status != 'paid'	Red banner on vehicle record and carrier dashboard. Message: 'Vehicle [VIN] registration expired on [date] with an unpaid Virginia Road Tax Fee. This vehicle cannot legally operate in Virginia. Renew registration through Virginia DMV immediately.' Compliance certificate blocked.	Carrier renews vehicle registration through Virginia DMV. Platform records new registration expiry date and confirms VRT Fee paid.
Non-IRP Vehicle Operating in VA — No VRT Fee Assessed	vehicle_va_miles, vehicle_irp_status, vehicle_vrt_status, vehicle_gvw, vehicle_axles	va_miles > 0 AND irp_status = 'non-IRP' AND vrt_status = 'not assessed' AND (gvw > 26000 OR axles >= 3)	Red alert on carrier dashboard and vehicle record. Message: 'Vehicle [VIN] is a qualifying non-IRP vehicle with Virginia miles but no VRT Fee has been assessed. The VRT Fee must be paid at vehicle registration. Verify registration status immediately.' Compliance certificate blocked.	Carrier verifies vehicle registration includes VRT Fee. Updates platform with payment confirmation.
IRP / Non-IRP Status Undetermined for VA-	vehicle_irp_status, vehicle_va_miles	va_miles > 0 AND vehicle_irp_status = null	Red alert on vehicle record. Message: 'IRP registration	Carrier enters IRP status in vehicle profile.

Exception Name	Field(s)	Threshold / Trigger	UI Behavior	Resolution Path
Operating Vehicle			status cannot be determined for vehicle [VIN] which has Virginia miles. This determination is required to identify whether the VRT Fee or IFTA applies.' Compliance certificate blocked.	System re-evaluates Virginia road tax obligation.
Vehicle GVW and Axle Count Not on File for VA-Operating Vehicle	vehicle_gvw, vehicle_axles, vehicle_va_miles	va_miles > 0 AND vehicle_irp_status = 'non-IRP' AND (vehicle_gvw = null OR vehicle_axles = null)	Red alert on vehicle record. Message: 'Gross vehicle weight and axle count are required to determine VRT Fee eligibility for vehicle [VIN]. Enter these fields in the vehicle profile.' VRT tracking blocked for this vehicle.	Carrier enters GVW and axle count. System re-evaluates VRT eligibility.
Non-IRP Vehicle Incorrectly Classified as IRP-Exempt	vehicle_irp_status, vehicle_registration_type, vehicle_va_miles	vehicle_irp_status = 'IRP' AND vehicle_registration_type = 'non-apportioned' AND va_miles > 0 AND (gvw > 26000 OR axles >= 3)	Red alert. Message: 'Vehicle [VIN] is classified as IRP but has non-apportioned plates. IRP exemption from VRT Fee requires actual IRP apportioned registration. Verify registration type and correct classification.' Compliance certificate blocked.	Carrier verifies registration type. Corrects IRP/non-IRP classification. Override logged.

4. High Exceptions — Acknowledgment Required

The following exceptions require the carrier or administrator to explicitly review, acknowledge, and provide written confirmation before the exception clears. Given the annual registration cycle, HIGH escalation fires 60 days before registration expiry to allow time for renewal. All acknowledgments are logged.

Exception Name	Field(s)	Threshold / Trigger	UI Behavior	Resolution Path
Vehicle Registration Renewal Due Within 60 Days	vehicle_registration_expiry, current_date, renewal_status	current_date >= (vehicle_registration_expiry - 60 days) AND renewal_status != 'initiated'	Orange alert on vehicle record and fleet dashboard. Message: 'Vehicle [VIN] registration expires on [date] — [X] days from today. The Virginia Road Tax Fee will be assessed at renewal. Ensure renewal is completed on time to avoid operating with an expired registration.' Acknowledgment required.	Carrier initiates registration renewal or confirms date is noted. Override logged.
IRP Status Changed to Non-IRP — VRT Fee Now Applies	vehicle_irp_status_current, vehicle_irp_status_prior, vehicle_va_miles	IRP status changed from IRP to non-IRP AND va_miles > 0 AND (gvw > 26001 OR axles >= 3)	Orange alert. Message: 'Vehicle [VIN] has been reclassified from IRP to non-IRP. The Virginia Road Tax Fee of \$150/year now applies to this vehicle and must be paid at the next vehicle registration renewal. Virginia road tax is no longer covered by IFTA for this vehicle.' Acknowledgment required.	Carrier acknowledges new VRT obligation. Platform activates VRT tracking for this vehicle. Override logged.
Non-IRP Status Changed to IRP — VRT Fee No	vehicle_irp_status_current, vehicle_irp_status_prior	IRP status changed from non-IRP to IRP AND vehicle had active VRT tracking	Orange alert. Message: 'Vehicle [VIN] has been reclassified from non-IRP to IRP.'	Carrier acknowledges IRP transition. Platform deactivates VRT tracking

Exception Name	Field(s)	Threshold / Trigger	UI Behavior	Resolution Path
Longer Applies			Virginia road tax is now covered through IFTA. The VRT Fee no longer applies and should not be assessed at the next vehicle registration.' Acknowledgment required.	and adds vehicle to IFTA-based Virginia tracking. Override logged.
Vehicle Axle Configuration Changed — VRT Eligibility Affected	vehicle_axles_current, vehicle_axles_prior, vehicle_irp_status	Axle count changed AND vehicle is non-IRP AND change crosses 3-axle threshold	Orange alert. Message: 'The axle configuration for vehicle [VIN] has changed. For non-IRP vehicles, 3 or more axles triggers the VRT Fee regardless of weight. Verify VRT eligibility for this vehicle.' Acknowledgment required.	Carrier confirms axle count. System re-evaluates VRT eligibility. Override logged.
GVW Changed — VRT Eligibility Affected	vehicle_gvw_current, vehicle_gvw_prior, vehicle_irp_status	GVW changed AND vehicle is non-IRP AND change crosses 26,001 lb threshold	Orange alert. Message: 'The declared gross weight for vehicle [VIN] has changed and crosses the 26,001 lb VRT Fee threshold. For non-IRP vehicles, this change affects Virginia Road Tax Fee eligibility.' Acknowledgment required.	Carrier confirms weight change. System re-evaluates VRT eligibility. Override logged.
IFTA-Licensed Intrastate Vehicle — VRT Also Required	vehicle_ifta_status, vehicle_irp_status, vehicle_operation_type	vehicle is IFTA-licensed AND non-IRP AND intrastate operation AND (gvw > 26000 OR axles >= 3)	Orange alert. Message: 'Vehicle [VIN] is IFTA-licensed but is classified as a non-IRP intrastate vehicle. Per Virginia DMV rules, the VRT Fee applies even if an intrastate vehicle is included on the	Carrier confirms VRT Fee is being paid at registration. Override logged.

Exception Name	Field(s)	Threshold / Trigger	UI Behavior	Resolution Path
			IFTA return. Verify VRT Fee is being paid at registration.' Acknowledgment required.	
<p>Multiple Vehicles Approaching Registration Renewal in Same Month</p>	<p>vehicle_registration_expiry_dates[]</p>	<p>3 or more vehicles have registration_expiry within same 30-day window</p>	<p>Orange flag on fleet dashboard. Message: '[X] vehicles have registration renewals due in [month]. Verify all qualifying non-IRP vehicles will have the VRT Fee paid at renewal.' Acknowledgment required.</p>	<p>Carrier confirms renewal plan for all vehicles. Override logged.</p>

5. Medium Exceptions — Informational Warning

The following exceptions display a warning in the compliance dashboard but do not require acknowledgment. They are logged automatically and visible in the carrier's compliance history.

Exception Name	Field(s)	Threshold / Trigger	UI Behavior	Resolution Path
Vehicle Registration Renewal Due Within 90 Days	vehicle_registration_expiry, current_date	current_date >= (vehicle_registration_expiry - 90 days) AND current_date < (vehicle_registration_expiry - 60 days)	Yellow reminder on vehicle record. Message: 'Vehicle [VIN] registration expires on [date] — approximately [X] days away. Prepare to renew and ensure the Virginia Road Tax Fee is included.'	Carrier notes reminder. Escalates to HIGH at 60 days.
Virginia Miles Recorded for IRP Vehicle — Confirm IFTA Coverage	vehicle_irp_status, vehicle_va_miles, ifta_va_miles	vehicle_irp_status = 'IRP' AND va_miles > 0 AND ifta_va_miles > 0	Yellow flag. Message: 'Vehicle [VIN] is IRP-registered with Virginia miles. Virginia road tax for this vehicle is covered through IFTA. Verify Virginia miles are correctly reported on the quarterly IFTA return.'	Carrier confirms IFTA coverage. No action required.
Non-IRP Vehicle — VRT Fee Payment Not Confirmed	vehicle_irp_status, vrt_paid_status, vehicle_registration_expiry	vehicle is non-IRP AND qualifying AND vrt_paid_status = 'unconfirmed' AND registration_expiry within 120 days	Yellow flag. Message: 'VRT Fee payment has not been confirmed for vehicle [VIN]. Verify the fee will be included in the upcoming registration renewal.'	Carrier confirms fee will be paid. No action required.

Exception Name	Field(s)	Threshold / Trigger	UI Behavior	Resolution Path
Vehicle Operation Type Changed — Verify Virginia Applicability	vehicle_operation_type_current, vehicle_operation_type_prior	Operation type changed between intrastate and interstate	Yellow flag. Message: 'Operation type for vehicle [VIN] has changed. Verify whether IRP registration status and Virginia road tax obligation have been updated accordingly.'	Carrier reviews operation type and IRP status. No action required.
New Vehicle Added — VRT Eligibility Not Determined	vehicle_add_date, vrt_eligibility_status, vehicle_irp_status	Vehicle added AND vehicle_irp_status = null AND vrt_eligibility_status = null AND va_miles > 0	Yellow flag. Message: 'Vehicle [VIN] has been added and has Virginia miles but VRT eligibility has not been determined. Enter IRP status, GVW, and axle count to complete the assessment.'	Carrier enters vehicle details. System determines VRT eligibility.
Fleet Has Mix of IRP and Non-IRP Vehicles with VA Miles	fleet_irp_vehicle_count, fleet_non_irp_vehicle_count	Both IRP and non-IRP vehicles have Virginia miles in same fleet	Yellow flag on fleet dashboard. Message: 'Your fleet includes both IRP and non-IRP vehicles with Virginia miles. Verify Virginia road tax obligations are correctly tracked for each group: IFTA for IRP vehicles, VRT Fee for non-IRP qualifying vehicles.'	Carrier reviews fleet classification. No action required.
VRT Fee Amount Changed	vrt_fee_amount_current, vrt_fee_amount_prior	Virginia DMV updates the VRT Fee amount	Yellow flag. Message: 'The Virginia Road Tax Fee amount has changed	Carrier notes fee change. System updates VRT fee amount

Exception Name	Field(s)	Threshold / Trigger	UI Behavior	Resolution Path
			from \$[prior] to \$[current] per vehicle. This will take effect at the next vehicle registration renewal.'	in tracking records.
No Virginia Miles Recorded — VRT Tracking Active	vehicle_va_miles, vrt_tracking_active	vrt_tracking_active = true AND va_miles = 0 for 3 or more consecutive registration periods	Yellow flag. Message: 'Vehicle [VIN] has VRT Fee tracking active but no Virginia miles have been recorded in [X] consecutive registration periods. Verify whether this vehicle is still operating in Virginia.'	Carrier confirms Virginia operations status. No action required.

6. Informational Exceptions — Compliance Dashboard

The following conditions are displayed in the carrier's compliance dashboard for awareness and audit preparedness. They do not appear in any filing workflow and do not block any action.

Exception Name	Field(s)	Threshold / Trigger	UI Behavior	Resolution Path
VRT Fee Paid — Registration Current	VRT_paid_status, vehicle_registration_expiry	VRT_paid_status = 'paid' AND registration_expiry > current_date	Dashboard green status: 'Vehicle [VIN] — Virginia VRT Fee paid. Registration current through [date].'	No action required.
Vehicle Classified as IRP — VRT Fee Exempt	vehicle_irp_status	vehicle_irp_status = 'IRP'	Dashboard notice: 'Vehicle [VIN] — IRP registered. Virginia road tax covered by IFTA. VRT Fee not applicable.'	No action required. Status updates if IRP status changes.
Vehicle Classified as Non-IRP VRT Exempt — Below Threshold	vehicle_irp_status, vehicle_gvw, vehicle_axles	non-IRP AND gvw <= 26000 AND axles < 3	Dashboard notice: 'Vehicle [VIN] — Non-IRP. Below VRT Fee threshold (2 axles and under 26,001 lbs). VRT Fee not applicable.'	No action required.
Next Registration Renewal Date	vehicle_registration_expiry	Always displayed for VRT-tracked vehicles	Dashboard display per vehicle: 'Next registration renewal: [date] ([X] days away). VRT Fee of \$150 due at renewal.'	No action required. Escalation chain begins at 90 days.
Fleet VRT Summary	fleet_vrt_vehicles[], fleet_irp_vehicles[]	Always displayed	Dashboard fleet summary: '[X] vehicles subject to VRT Fee. [X] vehicles IRP-exempt (IFTA covered). [X] vehicles below threshold (exempt).'	No action required.
Annual VRT Fee Total Paid	VRT_payments_ytd	Displayed at end of each calendar year	Dashboard notice: 'Total Virginia Road Tax Fees paid this year: \$[amount] across [X] vehicles.'	No action required.

7. Escalation Rules

Virginia VRT Fee escalation rules are built around the annual vehicle registration cycle rather than periodic filing deadlines. Each vehicle has its own unique registration expiry date, so all escalation is per-vehicle rather than universal.

7.1 Time-Based Escalation — Vehicle Registration Renewal

Exception	Info Fires At	Escalates to HIGH At	Escalation Condition
Registration Renewal	90 days before expiry	60 days before expiry	VRT Fee payment not confirmed
Registration Renewal	60 days before expiry	Expiry date passes	Escalates to CRITICAL — expired registration

7.2 Event-Based Escalation — IRP Status Changes

When a vehicle's IRP status changes, the escalation fires immediately because the Virginia road tax obligation changes instantly.

Exception	Info Fires At	Escalates to HIGH At	Escalation Condition
IRP → Non-IRP Change	Immediately on change	Immediately — HIGH	Non-IRP vehicle now subject to VRT Fee
Non-IRP → IRP Change	Immediately on change	Immediately — HIGH	IRP vehicle now exempt from VRT Fee
VA Miles, No IRP Status	First VA miles detected	Immediately — HIGH	Cannot determine VRT obligation without IRP status

7.3 Audit Trail Requirements

Every exception acknowledged or overridden at the High level must generate an immutable audit log entry containing the following fields:

- `exception_id` — unique identifier for the exception instance
- `carrier_id` — carrier account associated with the VRT record
- `vehicle_id / vin` — the specific vehicle the exception applies to
- `user_id` — user who acknowledged the exception
- `user_name` — full name of acknowledging user

- timestamp — UTC datetime of acknowledgment
- exception_type — exception code from the master exception list
- severity_at_time — severity level at the time of acknowledgment
- reason_entered — free-text explanation (required, minimum 20 characters)
- vehicle_registration_expiry — the registration renewal date associated with the exception
- irp_status_at_time — the IRP classification of the vehicle at the time of acknowledgment
- vrt_fee_amount — the VRT Fee amount applicable at time of acknowledgment

Audit log entries are read-only once created and cannot be edited or deleted by any user role including system administrator.

8. Configurable Threshold Reference

Virginia VRT has a significantly smaller threshold set than other modules because it has no periodic filing cycle, no separate account, and no per-mile calculation. The primary variables are registration renewal timing and IRP status change detection.

Parameter	Default Value	Allowable Range	Notes
Registration Renewal — MEDIUM Reminder	90 days before expiry	60 – 120 days	Per-vehicle yellow reminder fires
Registration Renewal — HIGH Escalation	60 days before expiry	30 – 90 days	Per-vehicle acknowledgment required
Registration Renewal — CRITICAL	0 days	Non-configurable	Immediately on expiry
IRP Status Change — HIGH	Immediately	Non-configurable	Any IRP status change triggers HIGH
VRT Fee Amount	\$150/vehicle/year	Set by VA DMV	Updated when Virginia changes the fee
Intrastate Operating Authority Fee	\$10/vehicle/year	Set by VA DMV	Property carrier annual operating authority fee
No VA Miles — Consecutive Periods	3 periods	2 – 5 periods	Triggers MEDIUM flag
Multiple Renewals in Same Month	3 vehicles	2 – 10 vehicles	Triggers HIGH acknowledgment for batch review
Reason Text Minimum Length	20 chars	10 – 100 chars	Required for HIGH acknowledgment

9. UI Behavior Summary

9.1 Vehicle-Level VRT Compliance Card

- Each vehicle with Virginia miles or active VRT tracking displays a VRT compliance card showing: IRP/non-IRP classification, VRT eligibility status (subject / exempt / below threshold), annual fee amount if applicable, vehicle registration expiry date, days until renewal, and VRT payment status for the current registration period.
- IRP vehicles display: 'Virginia road tax covered by IFTA' with a link to the IFTA module.
- Non-IRP qualifying vehicles display: 'VRT Fee \$150 due at registration renewal on [date].'
- Non-IRP exempt vehicles (below threshold) display: 'Below VRT threshold — fee not applicable.'
- CRITICAL exceptions display as a full-width red banner on the vehicle record with a direct link to Virginia DMV Motor Carrier Services.
- HIGH exceptions display as orange banners with the specific renewal date and days remaining.
- MEDIUM exceptions display as yellow inline flags.

9.2 Fleet-Level VRT Dashboard

- The carrier dashboard VRT summary card shows a fleet breakdown: IRP vehicles (IFTA-covered), non-IRP subject to VRT, and non-IRP exempt by category.
- A rolling 90-day registration renewal calendar shows all upcoming vehicle registrations sorted by expiry date, with non-IRP qualifying vehicles flagged for VRT Fee inclusion.
- Carriers can filter to view only VRT-subject vehicles, making it easy to verify the annual compliance status of the qualifying fleet.

9.3 IRP Classification Management

- The IRP/non-IRP determination is the most critical data point in the VRT module. The platform prompts for this classification when any vehicle is added with Virginia miles.
- IRP status is verified against the IRP module. If a vehicle is in the IRP fleet, the VRT module automatically classifies it as IRP-exempt. If it is not in the IRP fleet, it is classified as non-IRP pending weight and axle review.
- Any change to IRP status in the IRP module triggers an immediate VRT re-evaluation for all affected vehicles.
- The platform maintains an IRP classification history per vehicle with dates and triggering events for audit reference.

9.4 No Separate Filing Required

- Unlike all other weight-mile tax modules, the Virginia VRT Fee module does not prepare or track a separate periodic return. There is no filing portal link, no return preparation workflow, and no quarterly or monthly deadline cycle.

- The module's primary function is: (1) classify vehicles correctly, (2) track registration renewal dates, (3) confirm VRT Fee is paid at registration, and (4) alert the carrier when renewal is approaching.
- When a vehicle registration is renewed, the carrier enters the new registration expiry date in the platform. The system automatically confirms VRT tracking continues for the new registration period.

9.5 Cross-Module Integration

- IFTA Module: IRP-registered vehicles with Virginia miles are tracked for Virginia fuel tax through IFTA. The VRT module automatically flags these vehicles as IRP-exempt and confirms their Virginia road tax obligation is satisfied by the IFTA quarterly return.
- IRP Module: Any change to a vehicle's IRP registration status in the IRP module immediately triggers a VRT eligibility re-evaluation. The two modules share the IRP status field and must stay in sync.
- Vehicle Profile: Changes to GVW or axle count that cross the 26,001 lb or 3-axle threshold trigger immediate VRT eligibility re-evaluation for non-IRP vehicles with Virginia miles.
- IFTA intrastate non-IRP vehicles: The platform flags the edge case where a carrier is IFTA-licensed and includes intrastate non-IRP vehicles on their IFTA return. These vehicles are still subject to the VRT Fee at registration, and the platform reminds the carrier of this dual obligation.

9.6 Notification Delivery

- CRITICAL exceptions: immediate in-app alert + email to carrier administrator with vehicle VIN, registration expiry date, and link to Virginia DMV Motor Carrier Services.
- HIGH exceptions: in-app notification + email at 60-day registration renewal threshold and immediately on IRP status changes.
- Batch renewal alerts: when multiple vehicles renew in the same month, a single consolidated email lists all vehicles with upcoming renewals and VRT obligations.
- MEDIUM and INFO: in-app dashboard only. No email unless carrier opts into all compliance notifications.
- IRP transition notifications: when a vehicle transitions between IRP and non-IRP status, immediate in-app and email notification is sent to both the VRT module administrator and the IFTA module administrator, since the Virginia road tax tracking responsibility shifts between the two modules.