

# Interim Payments

## 1. Overview

Interim Payments are **ad-hoc payments made by drivers directly to Big Apple Taxi (BAT)** outside the weekly DTR cycle. They allow drivers to reduce outstanding balances without waiting for earnings application.

- Captured at the **cashier / front desk** (Cash, Check, ACH).
  - Always recorded against a **driver (TLC License)** and associated **medallion/lease**.
  - Applied to a **specific obligation** (Lease, Repair, Loan, EZPass, PVB, Misc).
  - **Partial payments** are allowed; obligation remains open until cleared.
  - **Excess payments** are automatically applied to **Lease**, ensuring full allocation.
  - Interim Payments do **not appear in the DTR**; they immediately reduce **Ledger\_Balances**.
  - Drivers receive a **standalone receipt** at the time of payment.
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## 2. Capture & Ingestion (Revised)

### 2.1 Entry Point

- Payment is captured against a **Driver (TLC License)**.
- System retrieves all **associated medallions/leases**.
- Cashier selects the relevant medallion → system displays **open obligations** from **Ledger\_Balances**.

### 2.2 Payment Allocation

- Cashier chooses:
  - **Category** (Lease, Repair, Loan, EZPass, PVB, Misc).
  - **Specific line item** (from open Ledger\_Balances).
  - **Payment Amount** + Method (Cash, Check, ACH).

### 2.3 Storage

- Raw payment is recorded in **Interim\_Payments table**.
- Allocation is posted into **Ledger\_Postings**, which reduces the chosen **Ledger\_Balances** entry.

**Key Fields – Interim\_Payments:**

- **Payment\_ID** (PK)
  - **Driver\_ID** (FK)
  - **Lease\_ID** (FK)
  - **Category** (Lease / Repair / Loan / EZPass / PVB / Misc)
  - **Reference\_ID** (e.g., Repair Invoice ID, Loan ID, Ticket Number)
  - **Amount**
  - **Payment\_Date**
  - **Payment\_Method** (Cash, Check, ACH)
  - **Created\_By** , **Created\_Timestamp**
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### 3. Posting Logic

#### 3.1 Ledger as the Source of Truth

- All allocations (Interim + Earnings) are applied only to **Ledger\_Balances**.
- **Source Tables** (Repairs, Loans, EZPass, PVB, Lease Schedule, Misc) remain immutable and record the original obligation.
- **Ledger\_Balances** tracks the diminishing balances and represents the current outstanding position for each obligation.

#### 3.2 Interim Payments

##### 1. Capture

- Payment is entered against a driver (TLC License).
- Cashier selects the medallion/lease → system displays open balances from **Ledger\_Balances**.
- Cashier chooses category + specific obligation (Repair Invoice, Loan ID, Toll, Violation, etc.).

##### 2. Apply

- Interim payment is recorded in **Interim\_Payments**.
- A **Ledger\_Posting** is created reducing the relevant **Ledger\_Balances** entry.

##### 3. Allocation Rules

- **Partial payment** → reduces balance, obligation remains open.
- **Exact payment** → obligation closed, Ledger\_Balance set to zero.
- **Excess payment** → obligation cleared, excess automatically applied to **Lease**.

#### 4. Output

- Balances in **Ledger\_Balances** update immediately.
- Driver receives an **Interim Payment Receipt** (not reflected in DTR).

#### 3.3 Earnings Application (at DTR Generation)

1. CURB (CC) earnings for the week are consolidated.
2. System checks **Ledger\_Balances** for all open obligations.
3. Earnings are applied based on strict **Payment Hierarchy**:
  - Taxes → EZPass → Lease → PVB → TLC → Repairs → Loans → Misc.
  - Within each category: oldest open obligation first.
4. Allocations are posted into **Ledger\_Postings**.
5. Net results feed into the DTR:
  - Updated balances carried forward.
  - Net Earnings & Total Due to Driver calculated.

#### 3.4 Principles

- The **ledger, not source tables, is reduced by payments**.
  - **Every dollar** is accounted for at the ledger level (no floating credits).
  - **Source tables = obligations issued, Ledger = obligations outstanding**.
  - DTR generation is simply a **snapshot of Ledger\_Balances** at the weekly cut-off.
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### 4. Reconciliation & DTR Impact

#### 4.1 Reconciliation Process

- **Ledger\_Balances** is the authoritative source for outstanding amounts.
- **Interim Payments** reduce Ledger\_Balances immediately at the time of posting.
- **Earnings (Curb CC) Application (at DTR generation)** further reduces Ledger\_Balances following the payment hierarchy.
- At any point, the sum of:
  - **Original Obligations (Source Tables) – Ledger\_Postings = Ledger\_Balances**.

This ensures every obligation can be reconciled back to its origin.

#### 4.2 DTR Impact

- Interim Payments **do not appear as separate entries** in the DTR.
- Instead, their effect is visible as reduced balances in the applicable categories.
- At the time of DTR creation, the system pulls balances directly from **Ledger\_Balances**:

- If a repair invoice had \$149 outstanding and the driver made a \$150 interim payment →
  - Repair balance = \$0.
  - \$1 excess auto-applied to Lease.
- DTR simply reflects the updated balances (Repair closed, Lease reduced).

#### 4.3 Driver Receipts

- Each Interim Payment generates its own **receipt**, showing:
  - Driver (TLC License)
  - Medallion / Lease ID
  - Obligation category + line item reference (e.g., Repair Invoice #2457)
  - Amount paid
  - Allocation of payment (full, partial, excess applied to Lease if applicable)
- This ensures transparency without cluttering the DTR.

#### 4.4 Key Principles

- **DTRs are clean** → only reflect balances as of cut-off.
  - **Receipts track ad-hoc payments** separately.
  - **Reconciliation is straightforward** → obligations (source) vs. postings (ledger) vs. balances (outstanding).
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### 5. UI Workflow

The Interim Payments workflow allows cashier desk staff to allocate a total payment amount across outstanding obligations, with real-time visibility into how balances are reduced.

#### Step 1 – Identify Driver

- Cashier enters or scans the **Driver's TLC License Number**.
- System retrieves driver profile and all **associated medallions/leases**.
- Cashier selects the relevant **Medallion / Lease ID**.

#### Step 2 – Enter Payment Details

- Cashier enters the **Total Payment Amount**.
- Cashier selects the **Payment Method** (Cash, Check, ACH).
- Payment Date defaults to **current date** (editable if required).

#### Step 3 – Allocation Screen

- System queries **Ledger\_Balances** for the selected medallion.

- Outstanding obligations are displayed in a **multi-column table** organized by category.

**Columns include:**

1. **Category** – Lease, Repairs, Loans, EZPass, PVB, Miscellaneous.
2. **Reference ID** – Lease ID, Repair Invoice ID, Loan ID, Ticket Number, etc.
3. **Description / Notes** – Short detail for clarity (e.g., “Engine Repair Invoice”).
4. **Outstanding Amount** – Current open balance in Ledger\_Balances.
5. **Pay** – Input/checkbox for applied funds.
6. **Balance** – Auto-calculated: Outstanding – Pay.
7. **Due Date / Age** – Optional; helps prioritize older items.

**Behavior:**

- Cashier allocates funds by checking off obligations and entering partial or full amounts.
- The **Running Total Applied** updates in real-time and must not exceed the total payment.
- Cashier may allocate **down to the cent** (e.g., \$1) against any obligation.
- If any part of the payment remains **unallocated at submission**, the system automatically applies it to **Lease**.

**Step 4 – Confirmation & Posting**

- Cashier reviews the allocation summary.
- On submission:
  - Record is created in **Interim\_Payments**.
  - Allocations are posted into **Ledger\_Postings**.
  - **Ledger\_Balances** is updated (balances reduced).

**Step 5 – Receipt Generation**

- A receipt is issued showing:
    - Driver & TLC License
    - Medallion / Lease ID
    - Payment Method, Date, and Total Amount
    - Allocation breakdown by Category + Reference ID
    - If Lease auto-absorbs excess, it is displayed as a separate line item
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## 6. Sample Interim Payment Allocation

### Assumptions

1. **Driver:** John Doe (TLC License #1234567).
2. **Medallion / Lease ID:** MED-101.
3. **Total Interim Payment Entered:** \$500 (Cash).
4. **Outstanding Balances (from Ledger\_Balances):**
  - Lease: \$275 (last week unpaid).
  - Repair Invoice #2457: \$149.
  - Driver Loan #LN-3001: \$200.
  - EZPass Toll Batch #EZ-6789: \$75.
  - PVB Ticket #PVB-9912: \$120.

### Allocation Screen (Before Submission)

Category	Reference ID	Description / Notes	Outstanding	Pay	Balance	Due Date / Age
Lease	MED-101-LS-09	Weekly Lease (09/15–09/21)	275.00	275.00	0.00	7 days overdue
Repair	INV-2457	Engine Repair Invoice	149.00	149.00	0.00	14 days overdue
Loan	LN-3001	Cash Advance	200.00	50.00	150.00	21 days overdue
EZPass	EZ-6789	Toll Batch – Plate XYZ123	75.00	25.00	50.00	Current
PVB	PVB-9912	Ticket – No Stopping Zone	120.00	<b>1.00</b>	119.00	30 days overdue

**Running Total Applied:** \$500.00  
**Remaining Unallocated:** \$0.00

**Receipt Summary (After Submission)**

**Driver:** John Doe (TLC #1234567)  
**Medallion / Lease ID:** MED-101  
**Payment Method:** Cash  
**Payment Amount:** \$500.00

Category	Reference ID	Applied Amount	Balance Remaining
Lease	MED-101-LS-09	275.00	0.00
Repair	INV-2457	149.00	0.00
Loan	LN-3001	50.00	150.00
EZPass	EZ-6789	25.00	50.00
PVB	PVB-9912	1.00	119.00

**Total Applied:** \$500.00  
**Excess Applied to Lease:** N/A (driver allocated full payment).

**Key Highlights**

- Driver/cashier allocated **every cent** (including \$1).
- **Partial payments** supported (Loan + EZPass).
- **Balances carry forward** where payment < outstanding.
- If John had only allocated \$499, system would have auto-applied **\$1 to Lease**.

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**7. Validation Rules**

The following validation rules must be enforced to ensure accuracy, auditability, and consistency when processing Interim Payments.

**7.1 General Rules**

- **Mandatory Fields:** Driver (TLC License), Medallion/Lease ID, Payment Amount, Payment Method.
- **Positive Amounts Only:** Payment amount must be greater than zero.

- **No Over-allocation:** Running total of applied funds must not exceed total payment amount entered.
- **Category Restriction:** Interim Payments cannot be applied to statutory **Taxes** (MTA, TIF, Congestion, CBDT, Airport).

## 7.2 Obligation Selection Rules

- **Valid Reference:** Selected obligation must exist in **Ledger\_Balances** and have an open balance.
- **Closed Obligations:** Cannot apply payment to a fully cleared obligation.
- **Partial Allocations:** Allowed; balance carries forward.
- **Exact Allocations:** Obligation closed; balance set to zero.
- **Excess Handling:**
  - If any funds remain unallocated, excess is automatically applied to **Lease**.
  - Excess allocation is recorded as a separate Ledger\_Posting.

## 7.3 Ledger Posting Rules

- Every Interim Payment must generate at least one corresponding **Ledger\_Posting**.
- Each Ledger\_Posting must link to:
  - **Payment\_ID** (from Interim\_Payments).
  - **Reference\_ID** (from the obligation in Ledger\_Balances).
- Ledger balances must always satisfy:
  - **Outstanding = Previous Balance - Payment Applied**.
- Duplicate prevention:
  - No two Interim Payments can generate Ledger\_Postings against the same **Reference\_ID** at the exact same timestamp.

## 7.4 Receipt Rules

- Receipts must reflect the **exact allocation table** (Category, Reference ID, Applied Amount, Remaining Balance).
- If Lease fallback is triggered, it must appear clearly as a separate line.
- Receipt total must always equal the payment amount captured.

## 7.5 Audit & Reconciliation Rules

- Interim\_Payments + Ledger\_Postings must always reconcile with the driver's outstanding balances.



- Any adjustment or reversal must be traceable (e.g., voided receipt, reversal posting).
  - Ledger\_Balances must never go negative.
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