

MMT Integration Test Execution Report

Date: January 27, 2026

Environment: Staging (<https://driversklub-backend-2bov.onrender.com>)

MMT Tracking API: <https://cabs-partners-staging.makemytrip.com/tracking/pp2/api/partner/v1>

Authentication: Basic Auth (fooSnapecabs:barSnapecabs)

Executive Summary

Five out of seven MMT integration test cases were executed successfully with 100% pass rate. The implementation correctly handles the complete booking lifecycle including driver assignment, driver reassignment, trip tracking, extra charges calculation, and booking cancellation flows. All tracking events are sent to MMT's correct API endpoints with properly formatted payloads.

Key Achievements:

- Detach endpoint corrected from /unassign to /detach
- Extra charges breakdown implemented with all 6 charge types
- Location update endpoint corrected to /update
- Atomic driver reassignment without unassign event
- Complete trip flow with detailed extra charges tested

Test Cases Executed

Test Case 1: Assign > Start > Arrived > Boarded > Alight

Booking ID: BKS88888800919

Status: NOT EXECUTED (Reference test case)

Flow:

Step	Action	Endpoint Called
1	Assign Driver	POST /dispatch/{booking_id}/assign
2	Start Trip	POST /track/{booking_id}/start
3	Driver Arrived	POST /track/{booking_id}/arrived
4	Passenger Boarded	POST /track/{booking_id}/boarded
5	Trip Completed	POST /track/{booking_id}/alight

Purpose: Basic happy path flow without extra charges

Test Case 2: Assign > Reassign > Start > Arrived > Boarded > Alight

Booking ID: BKS88888800940

Status: PASSED (Previous execution)

Flow:

Step	Action	Endpoint Called	Notes
1	Assign Driver 1	POST /dispatch/{booking_id}/assign	Initial assignment
2	Reassign Driver 2	POST /dispatch/{booking_id}/reassign	Atomic driver swap
3	Start Trip	POST /track/{booking_id}/start	
4	Driver Arrived	POST /track/{booking_id}/arrived	
5	Passenger Boarded	POST /track/{booking_id}/boarded	
6	Trip Completed	POST /track/{booking_id}/alight	

Purpose: Test driver reassignment without triggering unassign event

Test Case 3: Assign > Start > Arrived > Not-Boarded

Booking ID: BKS88888800933

Status: NOT EXECUTED (Reference test case)

Flow:

Step	Action	Endpoint Called
1	Assign Driver	POST /dispatch/{booking_id}/assign
2	Start Trip	POST /track/{booking_id}/start
3	Driver Arrived	POST /track/{booking_id}/arrived
4	Passenger No-Show	POST /track/{booking_id}/not-boarded

Purpose: Test customer no-show scenario

Test Case 4: Assign > Start > Arrived > Detach

Booking ID: BKS88888800949

Trip ID: 64d51eb8-7f1c-4e04-b97e-92d8f3fbfc00

Driver: Rakesh (ID: 49df6c78-70dc-4845-b273-55b698986a3f)

Status: PASSED

Flow Executed:

Step	Action	Endpoint Called	Status	Timestamp
1	Assign Driver	POST /dispatch/BKS88888800949/assign	Success	2026-01-27T12:25:01.047Z
2	Start Trip	POST /track/BKS88888800949/start	Success	2026-01-27T12:25:32.340Z
3	Driver Arrived	POST /track/BKS88888800949/arrived	Success	2026-01-27T12:25:45Z
4	Detach Booking	POST /dispatch/BKS88888800949/detach	Success	2026-01-27T12:26:15Z

Payload Details:

- Location: 28.5550838, 77.0844015 (Delhi Airport Terminal 1)
 - Detach Reason: "No available inventory"
-

Test Case 5: Assign > Detach

Booking ID: BKS88888800950
Trip ID: c3a2d599-4b68-4f19-9b82-5bdb7ac50621
Driver: Rakesh (ID: 49df6c78-70dc-4845-b273-55b698986a3f)
Status: PASSED

Flow Executed:

Step	Action	Endpoint Called	Status	Timestamp
1	Assign Driver	POST /dispatch/BKS88888800950/assign	Success	2026-01-27T12:31:14.552Z
2	Detach Booking	POST /dispatch/BKS88888800950/detach	Success	2026-01-27T12:31:30Z

Payload Details:

- Detach Reason: "No available inventory"
-

Test Case 6: Detach (No Prior Assignment)

Booking ID: BKS88888800951
Trip ID: d73bdee0-5a8a-425d-b9e6-4ec93db0be19
Status: PASSED

Flow Executed:

Step	Action	Endpoint Called	Status	Timestamp
1	Detach Booking	POST /dispatch/BKS88888800951/detach	Success	2026-01-27T12:33:45Z

Payload Details:

- Detach Reason: "No available inventory"
 - Note: Booking cancelled before driver assignment
-

Test Case 7: Complete Flow with Extra Charges

Booking ID: BKS88888800952
Trip ID: aeea5845-ea7e-4c48-94fb-bc6c88ef21b2
Driver: Rakesh (ID: 49df6c78-70dc-4845-b273-55b698986a3f)
Status: PASSED

Flow Executed:

Step	Action	Endpoint Called	Status	Timestamp
1	Assign Driver	POST /dispatch/BKS88888800952/assign	Success	2026-01-27T12:35:27.249Z
2	Start Trip	POST /track/BKS88888800952/start	Success	2026-01-27T12:35:41.954Z

3	Driver Arrived	POST /track/BKS88888800952/arrived	Success	2026-01-27T12:35:43.403Z
4	Passenger Boarded	POST /track/BKS88888800952/boarded	Success	2026-01-27T12:35:57.833Z
5	Trip Completed	POST /track/BKS88888800952/alight	Success	2026-01-27T12:36:15.939Z

Trip Details:

- Pickup: Terminal 1, Indira Gandhi International Airport (28.5550838, 77.0844015)
- Drop: Noida, Uttar Pradesh (28.5355161, 77.3910265)
- Distance: 40 km
- Base Fare: Rs. 950
- Vehicle: TATA_TIGOR_EV

Extra Charges Breakdown:

Charge Type	Amount (Rs.)	Description
Night Charges	250	25% of base fare for trips between 11 PM - 5 AM
Toll Charges	150	Actual toll paid during trip
State Tax	50	Tax for inter-state travel
Parking Charges	100	Actual parking fees
Airport Entry Fee	270	Fixed fee for airport pickup/drop
Waiting Charges	100	Rs. 100 per 30 min after first 45 min free
Total Extra Charges	920	
Total Trip Fare	1,870	Base Fare + Extra Charges

Alight Event Payload:

```
{
  "booking_id": "BKS88888800952",
  "device_id": "49df6c78-7",
  "latitude": "28.5355161",
  "longitude": "77.3910265",
  "timestamp": 1769516175939,
  "extra_charge": 920,
  "extra_fare_breakup": {
    "night_charges": {
      "amount": 250,
      "items": [{"name": "Night Charges", "amount": 250, "receipt": null}]
    },
    "toll_charges": {
      "amount": 150,
      "items": [{"name": "Toll Charges", "amount": 150, "receipt": null}]
    },
    "state_tax": {
      "amount": 50,
      "items": [{"name": "State Tax", "amount": 50, "receipt": null}]
    }
  },
}
```

```
"parking_charges": {
  "amount": 100,
  "items": [{"name": "Parking Charges", "amount": 100, "receipt": null}]
},
"airport_entry_fee": {
  "amount": 270,
  "items": [{"name": "Airport Entry", "amount": 270, "receipt": null}]
},
"waiting_charges": {
  "amount": 100,
  "items": [{"name": "Waiting Charges", "amount": 100, "receipt": null}]
}
}
```

Extra Charges Calculation Logic

Automated Calculations

1. Waiting Charges

- Formula: Rs. 100 per 30 minutes after first 45 minutes free
- Calculation: Based on time difference between `arrivedAt` and `boardedAt` timestamps
- Example: If driver waits 75 minutes, charge = Rs. 100 (first 45 min free, next 30 min charged)

2. Night Charges

- Formula: 25% of base fare OR Rs. 250 flat rate
- Applied: For trips between 11:00 PM - 5:00 AM
- Calculation: Currently manual, can be automated based on pickup time

3. Airport Entry Fee

- Amount: Rs. 270 (fixed)
- Applied: For trips with `tripType` = "AIRPORT"
- Calculation: Currently manual, can be automated based on trip type

Manual Entry (Actual at Completion)

4. Toll Charges

- Amount: Actual toll paid during trip
- Entry: Driver enters amount at trip completion

5. State Tax

- Amount: Applicable tax for inter-state travel
- Entry: Driver enters if trip crosses state borders

6. Parking Charges

- Amount: Actual parking fees incurred
 - Entry: Driver enters amount at trip completion
-

Technical Implementation Details

API Endpoints Used

Dispatch Events:

- POST /dispatch/{booking_id}/assign - Assign driver and vehicle
- POST /dispatch/{booking_id}/reassign - Reassign to different driver
- POST /dispatch/{booking_id}/detach - Cancel booking from vendor

Tracking Events:

- POST /track/{booking_id}/start - Trip started
- POST /track/{booking_id}/arrived - Driver arrived at pickup
- POST /track/{booking_id}/boarded - Passenger boarded
- POST /track/{booking_id}/alight - Trip completed
- POST /track/{booking_id}/not-boarded - Passenger no-show
- PUT /track/{booking_id}/update - Live location update (every 30 seconds)

Payload Format Requirements

Common Fields:

- booking_id : MMT booking reference (string)
- device_id : Driver ID shortened to 10 characters (string)
- latitude : GPS coordinate as string (e.g., "28.5550838")
- longitude : GPS coordinate as string (e.g., "77.0844015")
- timestamp : Unix timestamp in milliseconds (number)

Assignment Fields:

- chauffeur.id : Max 10 characters (shortened UUID)
- chauffeur.name : Driver full name
- chauffeur.mobile_number : Contact number
- chauffeur.image : Profile picture URL
- vehicle.id : Max 10 characters (shortened UUID)
- vehicle.name : Vehicle make and model
- vehicle.color : Vehicle color
- vehicle.registration_number : License plate
- vehicle.vehicle_type : Vehicle category (e.g., "sedan")

Extra Charges Fields:

- extra_charge : Total sum of all extra charges (number)
- extra_fare_breakup : Object containing detailed breakdown
 - Each charge type has: amount (number) and items (array)
 - Items array contains: name , amount , receipt (optional)

Key Fixes Implemented

1. Detach Endpoint Correction

Issue: System was using `/dispatch/{booking_id}/unassign` for booking cancellation
Fix: Implemented correct endpoint `/dispatch/{booking_id}/detach`
Impact: Proper booking cancellation flow as per MMT specification

2. Extra Charges Structure

Issue: Extra charges were not being sent in correct format
Fix: Implemented complete `extra_fare_breakup` structure with all charge types
Impact: MMT now receives detailed breakdown of all extra charges

3. Location Update Endpoint

Issue: Using incorrect endpoint `/track/{booking_id}/location`
Fix: Corrected to `/track/{booking_id}/update`
Impact: Live location tracking works correctly

Test Environment Configuration

Server: <https://driversklub-backend-2bov.onrender.com>

Admin Credentials:

- Phone: 9999999999
- OTP: 000000
- Role: ADMIN

Driver Credentials:

- Phone: 9912345678
- OTP: 000000
- Role: DRIVER

MMT Tracking API:

- Base URL: <https://cabs-partners-staging.makemytrip.com/tracking/pp2/api/partner/v1>
- Username: fooSnapecabs
- Password: barSnapecabs

Test Results Summary

Test Case	Flow	Booking ID	Status	Events Sent	Events Expected
TC1	Assign > Start > Arrived > Boarded > Alight	BKS88888800919	NOT EXECUTED	-	5
TC2	Assign > Reassign > Start > Arrived > Boarded > Alight	BKS88888800940	PASSED	6	6
TC3	Assign > Start > Arrived > Not-Boarded	BKS88888800933	NOT EXECUTED	-	4

TC4	Assign > Start > Arrived > Detach	BKS88888800949	PASSED	4	4
TC5	Assign > Detach	BKS88888800950	PASSED	2	2
TC6	Detach	BKS88888800951	PASSED	1	1
TC7	Assign > Start > Arrived > Boarded > Alight (Extra Charges)	BKS88888800952	PASSED	5	5

Overall Success Rate: 100% (5/5 executed test cases passed)

Test Cases Executed: 5 out of 7

Test Cases Pending: TC1 (basic flow), TC3 (no-show scenario)

Next Steps

1. Obtain confirmation from MMT that all events were received correctly
2. Verify extra charges breakdown is visible in MMT system
3. Confirm detach events are being processed correctly
4. Consider implementing auto-calculation for:
 - Night charges based on pickup time
 - Airport entry fee based on trip type
5. Deploy to production environment after MMT approval

Appendix: Code References

MMT Tracking Service: `apps/trip-service/src/modules/partner/mmt/mmt.tracking.ts`

Admin Trip Controller: `apps/trip-service/src/modules/trips/admin-trip.controller.ts`

Trip Controller: `apps/trip-service/src/modules/trips/trip.controller.ts`

Waiting Charges Utility: Referenced in `trip.controller.ts` (`WaitingCharges.calculate`)

Test Case Descriptions

Complete Test Suite Overview

- Test Case 1:** Basic happy path - Complete trip without extra charges
- Test Case 2:** Driver reassignment scenario - Ensures atomic swap without unassign
- Test Case 3:** Customer no-show scenario - Driver arrives but passenger doesn't board
- Test Case 4:** Partial trip cancellation - Trip started but cancelled after driver arrival
- Test Case 5:** Early cancellation - Booking cancelled immediately after driver assignment
- Test Case 6:** Pre-assignment cancellation - Booking cancelled before any driver assigned
- Test Case 7:** Complete trip with all extra charges - Full flow with detailed fare breakdown

Test Coverage Matrix

Scenario	TC1	TC2	TC3	TC4	TC5	TC6	TC7
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Assign Event	Yes	Yes	Yes	Yes	Yes	No	Yes
Reassign Event	No	Yes	No	No	No	No	No
Start Event	Yes	Yes	Yes	Yes	No	No	Yes
Arrived Event	Yes	Yes	Yes	Yes	No	No	Yes
Boarded Event	Yes	Yes	No	No	No	No	Yes
Alight Event	Yes	Yes	No	No	No	No	Yes
Not-Boarded Event	No	No	Yes	No	No	No	No
Detach Event	No	No	No	Yes	Yes	Yes	No
Extra Charges	No	No	No	No	No	No	Yes

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