








RailOps WhatsApp Bot Integration Proposal

To simplify access, reduce app installation friction, and enhance passenger and operations engagement by integrating a Meta (WhatsApp) Bot for key services of the RailOps platform.







Current RailOps App Features

| Feature | Description |
|--------------------------------|---|
| Current Booking View | Real-time display of current bookings. |
| Waiting Station CTR Monitoring | Centralized monitoring of waiting station statuses. |
| Image-Based Attendance | Staff check-in using selfies. |
| Passenger Feedback | Collects in-running train feedback. |
| Make Stationary Report | Issue or review daily reports. |
| Asset & OHHS Audits | Audit & inspection tracking. |
| CMS Integration | Crew Management System link. |





Proposed WhatsApp Bot Features

| Module | WhatsApp Bot Use Case |
|--|--|
|  Current Booking | Fetch bookings via PNR, phone number, or train number. |
|  Stationary Report | Submit daily checklists with photo upload. |
|  Attendance | Staff sends selfie via WhatsApp → logs attendance. |
|  CTR Monitoring | Get summary reports on stations directly in chat. |
|  Feedback | Passengers share real-time feedback via quick form. |
|  Audit & Compliance | Send inspection snapshots & fill forms easily. |
|  Location | Location-tagged staff check-in using WhatsApp GPS. |

Advantages

| Category | Benefits |
|---|---|
|  No Installation | Avoids friction of app downloads & updates. |
|  Offline Access | Works on low bandwidth unlike app-heavy GUIs. |
|  Intuitive UX | Everyone knows WhatsApp → no training needed. |
|  Real-Time Capture | Instant feedback, photos, attendance via chat. |
|  Scalable | Reaches staff, vendors, and passengers instantly. |
|  Easy Integration | Connects with backend APIs for real-time sync. |

Challenges & Mitigations

| Challenge | Solution |
|---|---|
|  Limited UI Controls | Use carousels, buttons, and menus to mimic GUI. |
|  Data Privacy | Integrate with end-to-end encryption + secure APIs. |
|  Analytics Export | Sync with dashboards like RailMadad or Suvidhaen Analytics. |
|  Language Support | Add multilingual bot logic for pan-India users. |

Reference

Passenger feedback analytics → can be directly fed via WhatsApp.

Operational metrics → auto-generated and pushed weekly via bot.

Real-time issue flags → train staff or passengers can report instantly.

Next Steps

1. Pilot WhatsApp Bot with 2-3 modules (Attendance, Feedback, Booking).

2. Integrate with RailOps backend for secure data handling.

3. Scale to all zones: ECR, ER, NFR, NR, NCR.

Call to Action

Let's reduce friction, improve engagement, and modernize rail operations with a WhatsApp-first approach that complements the RailOps app.

Ready to discuss further?