

# Database Architecture

The application uses **two PostgreSQL databases**:

- OSAS Database** (Primary)
  - Main operational database
  - Contains waybills, scans, users, partners, etc.
- ONMART Database** (Secondary)
  - Marketplace-specific operations
  - Separate schema for marketplace data

## Key Database Models

### Core Operational Models

| Model           | Purpose                 | Key Fields                                 |
|-----------------|-------------------------|--------------------------------------------|
| scans           | Tracking status history | waybill_id, status, location, timestamp    |
| waybill_numbers | Shipment records        | awb_number, origin, destination, weight    |
| partners        | 3P courier partners     | name, api_token, webhook_url               |
| resi_3p         | 3P waybill mapping      | internal_awb, partner_awb, partner_id      |
| user            | User accounts           | username, password_hash, role_id, agent_id |

### Scanning Models

| Model          | Purpose                     |
|----------------|-----------------------------|
| delivery_scan  | Delivery completion records |
| handover_scan  | Hub-to-hub transfers        |
| receiving_scan | Package arrivals            |
| problem_scan   | Exception tracking          |
| packing_scan   | Package preparation         |

### Financial Models

| Model | Purpose |
|-------|---------|
|-------|---------|

|                    |                         |
|--------------------|-------------------------|
| billing_vip_config | VIP customer pricing    |
| xendit_payment     | Payment gateway records |
| xendit_payout      | Payout transactions     |
| agent_commission   | Commission calculations |

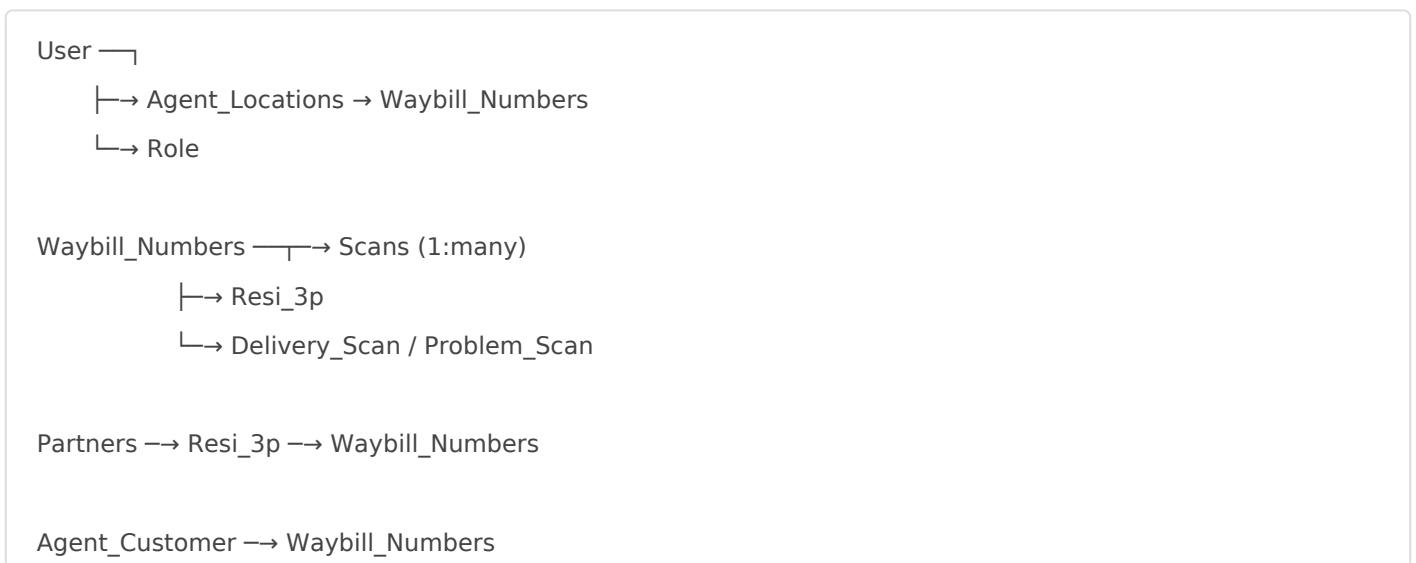
## Master Data Models

| Model            | Purpose                      |
|------------------|------------------------------|
| agent_locations  | Agent location mapping       |
| agent_customer   | Customer-agent relationships |
| awb_books        | AWB number allocation        |
| courier_partners | Courier configurations       |
| service_types    | Available services           |

## Additional Models (52 total)

- Manifest management (manifest\_pcp, manifest\_pos)
- Quality management (alter\_weight, pod\_record, pop\_record)
- Trucking operations (trucking\_shipment, trucking\_config)
- Location master data (all\_location\_migration)
- Marketplace integration models
- Report configuration models

## Database Relationships



# Connection Pooling

```
// From db.config.js
pool: {
  max: DB_POOL_MAX,    // Maximum connections
  min: DB_POOL_MIN,    // Minimum connections
  acquire: DB_POOL_ACQUIRE, // Connection acquisition timeout
  idle: DB_POOL_IDLE   // Idle timeout
}
```

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