# Veterinary Clinic – POS Sync (OSPOS → Today’s Visit) Spec

This document outlines how the clinic management system will integrate with OSPOS (Open Source Point of Sale) to link medicine dispensing to patient visits.

## 1) Overview

- Integrate OSPOS sales with the clinic system by Unique ID (primary) or mobile number (secondary).  
- When a sale is completed in OSPOS, medicines and quantities are recorded in the clinic system for the patient/visit.  
- Supports:  
 1. Medicines dispensed during a patient visit.  
 2. Walk-in medicine-only sales (no concurrent visit).  
- Each invoice is linked to the correct patient’s Unique ID and appears in their visit record.

## 2) OSPOS Search Flow

At POS terminal:  
- Cashier scans patient’s Unique ID barcode/QR or enters mobile number.  
- OSPOS customer search matches:  
 • Unique ID → exact pet match.  
 • Mobile → returns list of pets under that owner for selection.  
- Once selected, the pet/customer record in OSPOS is attached to the sale.

## 3) Identifiers & Mapping

- OSPOS customers table extended with:  
 • pet\_unique\_id (string)  
 • owner\_mobile\_primary  
 • owner\_mobile\_additional[] (optional)  
- One OSPOS customer per pet.  
- Customer display name format: PetName [OwnerName] (Species/Breed).  
- Barcode = pet\_unique\_id for scan matching.

## 4) Data Sent to Clinic System

On sale completion, send via webhook/API:  
- unique\_id (string)  
- invoice\_id (string)  
- sale\_date\_time (ISO)  
- items[]:  
 • product\_code / name  
 • quantity  
 • unit\_price  
- invoice\_pdf\_url (optional if PDF generation enabled)  
- cashier / user\_id

## 5) Sync Method

Primary: OSPOS webhook on sale completion → calls clinic API endpoint.  
Fallback: Clinic system polls OSPOS API for recent sales (interval: 5–10 min) and reconciles.  
- Webhook payload validated against known Unique IDs.  
- On match, attach invoice to today’s visit (or create visit if medicine-only scenario).  
- Duplicate suppression by invoice\_id.

## 6) Medicine-only Sales Handling

- If no open visit for today:  
 • Auto-create a visit with source = 'POS-only'.  
 • Mark status = closed (unless admin wants to add notes later).  
- Appears in patient’s history and dashboard Timeline.

## 7) UI in Clinic System

In Today’s Visit → POS section:  
- Show invoice chips: invoice\_id, time, total.  
- Click → detail modal: item list (name + qty + price).  
- Link: 'Open in OSPOS'.  
- If invoice PDF exists, show download/view icon.  
- Multiple invoices possible per visit (morning/evening).

## 8) Error Handling

- Unmatched Unique ID → queue for admin review (possible typo or missing record).  
- Duplicate invoice\_id → ignored unless force re-sync.  
- Webhook failures → retry queue with exponential backoff.

## 9) Permissions

- Front desk: view POS section, open invoices, print.  
- Doctor: same as front desk.  
- Admin: same + re-sync, delete invoice link, match unmatched invoices.

## 10) API Endpoints

- POST /api/pos/sale-complete  
- GET /api/visits/{visit\_id}/pos  
- POST /api/pos/resync (admin)  
- GET /api/pos/unmatched (admin)