# Veterinary Clinic – Create Today’s Visit (Zero‑Click) – Addendum

This addendum finalizes capture hubs, edge cases, and late report handling for the zero‑click visit flow.

## 1) Capture Hub Sources

### 1.1 Android App (Primary)

- Scan QR/Barcode → resolve UNIQUE\_ID.  
- Big actions: Upload Prescription, Upload Lab/Doc/X‑ray/USG, Capture Patient Photo, View Today’s Visit.  
- First successful action of the clinic-day → fetch-or-create today’s visit (v####, status=open).  
- Filenames assigned by server using confirmed convention; visit\_seq included (e.g., -v0007-01).

### 1.2 Network Folder Ingest (X‑ray/USG machines)

- Machines save to a shared network path (read-only to app): \\CLINIC-SHARE\incoming\  
- Expected filename pattern on device side: {UNIQUE\_ID}-{YYYYMMDD}[-HHMMSS][-TYPE][-SUBTYPE][-SEQ].ext (machine timestamp ok).  
- A scheduled ingest job (cron, every 2–5 min) scans for new files, validates UNIQUE\_ID, and moves them into storage:  
 /storage/patients/{YYYY}/{UNIQUE\_ID}/YYYYMMDD[\_HHMMSS]-{UNIQUE\_ID}-xray|usg[-SUBTYPE][-v####][-##].ext  
- Fetch-or-create today’s visit (clinic-day window). If the embedded date is different from today, attach to the visit on that date if it exists, else create a visit for that date (configurable).  
- DICOM: keep original .dcm and generate -preview.jpg for web; both indexed in documents.  
- De-duplication: checksum (SHA1) and filename collision guard.

### 1.3 Clinic PC Scanner / Camera Upload

- Web page with drop zone + camera capture.  
- Input: UNIQUE\_ID (auto-focus) → then file(s).  
- Batch uploads allowed; server assigns final names and links to today’s visit (or date chosen by user).  
- Fallback path when Android offline/unavailable.

### 1.4 Scan Medicine → POS Link (Stub)

- Android button: Scan Medicine (barcode).  
- For now, store raw scans under today’s visit as type=medscan; later the POS sync maps invoice items and quantities and reconciles with these scans.  
- POS sync (later): on invoice completion for UNIQUE\_ID, attach invoice ID + items to today’s visit and store invoice PDF.

## 2) Edge Cases (Final)

- Two separate encounters same day → “Start New Visit Today” creates a second visit for same date (v#### increments).  
- Midnight spillover → clinic-day window (e.g., 04:00–03:59 IST) to attach late-night uploads to intended day.  
- Provisional patients → allowed; uploads and POS create visits even before admin completes details.  
- Multiple images → server assigns -01, -02; order preserved by upload time.  
- Android offline → local queue retries; PC upload fallback available (Section 1.3).

## 3) Late Receipt of Reports (Email/WhatsApp PDFs)

Goal: Attach late-arriving lab/other PDFs to the correct visit with minimal manual work.

### 3.1 Intake Channels

A) Email intake (recommended): Provision dedicated inbox (e.g., reports@clinic.tld). A cron-based IMAP poller fetches new emails, extracts attachments (PDF/JPG/PNG).  
 - Preferred filename from sender: {UNIQUE\_ID}-{YYYYMMDD}[-TYPE][-SUBTYPE].pdf  
 - If UNIQUE\_ID not present in filename, attempt to parse from body/subject; else drop to review queue.  
B) WhatsApp Business API (optional later): Webhook receives media → same processing path as email.  
C) Manual drag-drop: Staff saves PDF locally and uploads via PC upload page using UNIQUE\_ID and optional Visit Date selector.

### 3.2 Association Rules

- If filename contains UNIQUE\_ID and date → attach to visit on that date (create if missing).  
- If only UNIQUE\_ID (no date) → attach to most recent open visit within the last N days (configurable, e.g., 7). If none, attach to latest visit within 30 days; else create a reports-only visit dated today and mark as late\_for=<yyyy-mm-dd>.  
- Always allow admin to reassign document to a different visit via a simple “Move to Visit …” action.

### 3.3 Storage & Indexing

- Final storage under patient/year folder with confirmed filename scheme; record in documents table with source=email|whatsapp|pc.  
- Keep original attachment name for audit; store parsed metadata (date, type, ref\_id if available).  
- Duplicate suppression via checksum.

## 4) Background Jobs

- Ingest scanner (network folder): every 2–5 minutes.  
- Email IMAP poller: every 2–5 minutes.  
- DICOM preview generator: on demand or queued.  
- Visit auto-close: end of clinic day.  
- POS sync: every 1–5 minutes or webhook (preferred later).