### 0) Stack

These are suggestions. Feel free to make modifications based on your capabilities

- Mobile: React Native (Expo)
- Backend: Tiny Node (Fastify/Express) for auth helpers, media pipeline, signed URLs, usage/quota, web player bootstraps
- AI/Media: OpenAI (prompts + script), Whisper (STT), ElevenLabs (TTS), FFmpeg (mix)
- Data/Auth/Storage: Supabase (Postgres + Auth + Storage, RLS)
- Paywall: superwall.com (Basic/Advanced, free trial)
- Push: Expo Push (remote) + Expo local notifications

# 1) Navigation & IA

Sidebar (left hamburger)

- My Meditations
- Explore My Vision
- Account (at bottom)
- Streak: small <a>(4)</a> + number shown next to the account name in the sidebar header

**Important:** Categories **do not** appear in the sidebar. They only appear **inside** Explore My Vision.

# 2) Auth & First-Run Onboarding

### **Auth: Email Magic Link (Supabase)**

Enter email → magic link.

- Existing email → signs in and lands on My Meditations.
- New email → after link, ask Full Name, then proceed to Welcome/Onboarding.

### Welcome Slides (4 tabs)

- 1. **Neuroscience** Mental rehearsal shapes your brain, body, and reality.
- 2. **Energy** Emotion, clarity, and frequency matter.
- 3. **Your new practice** Consciously design and create your future.
- 4. How it works
  - a. Answer prompts to clarify your vision.
  - b. Receive a custom guided meditation; listen, feel, embody.
  - c. From this new state, create the life of your vision.
  - d. Return daily to evolve & embody it deeper.

#### **CTA:** "Create my first meditation"

### **First-Run Meditation Onboarding**

- 3-minute grounding audio (hosted; optional Skip).
- Then **prompt & response flow** (voice or text → **Review/Edit** → Submit):
  - 1. If you could shift or create one thing in your life right now, what would it be?
  - 2. Who do you get to be to create this shift in your life?
  - 3. How will you feel once this shift or creation has occurred?
    - After user submits #3: server begins generating the first meditation (~5 min) in the background.
  - 4. Imagine one year from now your life has blossomed... what do you see, feel, and experience?
- Paywall (Superwall) appears after the 4th prompt (before playback):
  - Start Free Trial (3-5 days) → unlocks listening + full app.

- After they subscribe/start trial → they can listen to first meditation.
- Hard gate: without subscribing/trial, cannot listen or enter the app.
- After listening to the first meditation → Enter App (My Meditations).

#### **Notes**

- All onboarding meditations are ~5 minutes.
- Whisper voice → transcript → Review/Edit step is always present.

# 3) Explore My Vision

### **Category Screen (inside Explore)**

- Always show all categories (freeform, health, wealth, relationships, play, love, purpose, spirit, healing).
- Each tile shows status indicator:
  - Not started: "+ Begin Vision"
  - In progress: shows Al-generated tagline (8–12 words)
- Taglines auto-refresh whenever the Living Vision Statement updates.

### **Living Vision Statement Model**

- Per category, user has a single active statement (evolves over time).
- Buttons:
  - Edit (manual)
  - Update with Prompts (start 2 fixed + Al follow-ups)
- Version history stored, but show only the active statement by default.
   Optional "Past versions" view.

### **Prompt Flow (when updating)**

- Two fixed, hand-curated prompts per category (identical for every user).
- Then **Al follow-ups** (**Hybrid mode**: ~70% depth, 30% expansion; up to 3).

- Review/Edit after each transcription (or typed) before submitting.
- Updated answers → synthesize new Living Vision Statement + regenerate tagline.

### **Meditation generation from Explore**

- User can generate a meditation from the current category at any time.
- Script generation uses active statement + latest answers as context.

# 4) My Meditations

#### **Default List**

Most recent first.

### Filters/Tabs

- All
- **Gift** (sent gifts only; cannot pin/favorite; \* badge)
- Downloaded (Advanced only)
- Favorites (☆)
- By Category (collapsible groups)

### **Pinning/Favorites**

- Pinned (★): up to 3; shown only at top of All.
- Favorites (>): normal favorites filter.

### **Received Gifts**

- When a recipient saves a gift, it appears in My Meditations like a personal item:
  - Shows \* + "Gifted to you by [FirstName]"
  - Counts outside weekly quota
  - Editable title allowed

- Background/voice locked
- Can pin/favorite and download (Advanced)

# 5) Gift Meditations (🎁)

### **Purpose & Label**

- "Gift Meditations don't draw from or update your vision history. They're perfect for creating and sharing meditations for friends."
- Gift badge (\*\*) in:
  - Top-right of creation & playback (with info modal + the help text above)
  - Gift tab cards
  - Share previews
- No special accent color (badge is the only differentiator).

#### **Creation Flow**

- Entry: Create Gift Meditation.
- Duration options: 5, 10, 15 min (cap always 15).
- After generation → "Your Gift Meditation is ready"
  - Primary CTA: Share Now (auto-copies link → toast "Link copied" → opens share sheet)
  - Secondary CTA: Listen First
- Personalization: Web player shows "A Gift Meditation from [FirstName]"
- No custom message field.

# Web Player (public)

- Full playback (no login required).
- Prominent "Save this meditation" CTA → magic link sign-up → app install → saved into their library.
- Links are permanent & evergreen (no auto-expire, no revoke in v1).

 Re-sharing: recipients can re-share unlimited; new link attributed to latest sharer.

### **Persistence & Ownership**

- Gifts already shared remain playable indefinitely for recipients even if sender lapses subscription or deletes their own copy.
- When a recipient saves a gift:
  - It's permanent in their library (subject to their own subscription for playback).
  - Does not count toward their weekly quota.
  - Title editable; background & voice locked.

# 6) Subscriptions, Access & Quotas

#### **Plans**

#### Basic

• Personal: 3/week

• Gift: 3/week

• Max personal duration: 15 min

• Background playback: pauses on background/screen off

Offline: not available

• Voices: 3

#### Advanced

• Personal: Unlimited

Gift: Unlimited (each gift still max 15 min)

• Max personal duration: 60 min

• Background playback: continues in background/screen off

- Offline: manual "Download for Offline"; files remain indefinitely while subscribed
- Voices: 5

#### Global

- Weekly reset: Monday 00:00 local time
- Gift quota consumed on create (not on share)
- Hard block when Basic user hits personal or gift cap → Upgrade modal (Superwall)
- Playback lock if subscription lapses (both tiers). Library visible; playback locked.
- Gifts already shared: remain playable for recipients regardless of sender status.

#### **Free Trial**

- 3–5 days. Hard paywall thereafter.
- Trial unlocks the first onboarding meditation listening + app access during trial window.

# 7) Player UX (v1)

- Play/Pause
- Scrub bar
- Elapsed / Total time
- ±15s jump buttons
- Background playback behavior by tier (Advanced continues; Basic pauses)

# 8) Voice & Background Selection (Preview-Enabled)

#### **Voices**

- Preview-enabled list; only one preview plays at a time; local cache; spinner states.
- Basic (3):
  - HzVnxqtdk9eqrcwfxD57 ("Neutral Calm")
  - voice\_female\_calm ("Female Calm")
  - voice\_male\_calm1 ("Male Calm")
- Advanced adds (5):
  - voice\_female\_assert ("Female Assertive")
  - voice\_male\_calm2 ("Male Calm 2")
- Defaults: slightly slow pacing (~135 WPM), stability 0.7, similarity 0.8.

### **Backgrounds**

- **Preview-enabled list** (12–20s seamless loops; Silence uses a 5s silent preview):
  - Ocean Waves
  - Deep Ambient
  - Crystal Bowls
  - Theta Beats
  - Silence

# 9) Script Generation, Naming, and Sharing

### **Script Generation**

- **System prompt** enforces mindful tone, 2nd person, invitations-not-claims, [pause] cues.
- Target words = duration × 135 WPM (±10%).
- Inputs: CATEGORY, BACKGROUND\_TYPE (vibe only),
   USER\_RESPONSES\_SUMMARY, DURATION\_MIN, TARGET\_WORDS,

USER\_NAME.

#### **Titles**

- Auto-generated, descriptive (2–5 words, Title Case).
- Do not reference background audio.
- User can edit title (owner-only; saved gifts title editable by recipient).
- Keeps both title\_auto and editable title.

### **Shareables (Subscribers)**

- Audiogram (MP4): waveform, background art, short text, "Made with Lucid Vision ">"
- Quote Card (PNG): key line + gradient + logo
- Web Player Link: signed asset URL; simple player
- Gift mode: share CTA is prominent and default.

### 10) STT & Privacy

- Whisper STT:
  - Upload raw mic to temp/raw/...
  - Transcribe → on success, delete raw immediately
  - On failure: retain <24h for retry; cron cleans.</li>
- Only **approved transcript** (post Review/Edit) is stored.
- Never expose raw audio URLs to client.

# 11) Audio Pipeline & Mastering

#### Output

- MP3 160 kbps, 44.1 kHz, 16 LUFS target, peak ceiling 1 dBFS
- 5s graceful fade at end

#### Mix

- Voice 0 dB; BG -14 dB; duck BG -4 dB when voice present (attack 120 ms / release 300 ms)
- BG: 1s fade-in, 5s fade-out; loop with ~250 ms crossfade
- Per-background EQ tweaks:
  - Ocean: low-cut ~60 Hz
  - Deep ambient: low-cut ~40 Hz
  - Crystal bowls: high-cut ~14 kHz
  - Theta beats: narrow notch if harsh
  - Silence: none

#### Licensing

 Assume licensed/owned full-length BG masters; fade & trim as needed; loop if narration longer.

### 12) Streaks & Notifications

#### Streak

- Counts when user completes ≥80% of any meditation (personal or gift).
- Cloud-synced (Supabase), not real-time; updates on app open/sync.
- Sidebar shows + current number; Account shows current + longest.

#### Reminders

- Daily reminder at user-chosen time (Account Settings).
- 8 PM nudge if streak active and not completed today.
- Local + remote push.
- Client suppresses 8 PM nudge if it knows user completed; server also schedules standard nudge; duplicates are harmless.

# 13) Data Model (Supabase)

```
-- user profile
create table user_profiles (
 user_id uuid primary key references auth.users(id),
 full_name text,
 subscription_tier text check (subscription_tier in ('basic','advanced','trial','non
e')) default 'trial',
 trial_expires_at timestamptz,
 timezone text default 'America/Los_Angeles',
 created_at timestamptz default now()
);
-- meditations (owner library + received)
create table meditations (
 id uuid primary key default gen_random_uuid(),
 user_id uuid references auth.users(id) not null,
 title text not null,
 title_auto text,
 title_slug text,
 category text,
                               -- health, wealth, etc.
 is_gift boolean default false,
                                    -- sender's gift lives only in Gift tab
 is_downloaded boolean default false, -- client sync flag
 favorite boolean default false,
 pinned boolean default false,
 duration_minutes int not null,
 background_key text not null,
 voice_id text not null,
 mixed_audio_path text,
                                   -- storage path
 created_at timestamptz default now()
);
-- lineage for public gift shares + reshares
create table gift_lineage (
 id uuid primary key default gen_random_uuid(),
 gift_id uuid references meditations(id),
                                            -- sender's gift meditation id
 origin_meditation_id uuid references meditations(id),
```

```
origin_user_id uuid references auth.users(id),
 parent_gift_id uuid references gift_lineage(id),
 sharer_user_id uuid references auth.users(id),
                                       -- set when claimed; null = anonymous
 recipient_user_id uuid,
listeners
 created_at timestamptz default now()
);
-- mapping when a recipient saves a gift (cloned entry in their library)
create table received_gifts (
 id uuid primary key default gen_random_uuid(),
 receiver_user_id uuid references auth.users(id),
 source_gift_meditation_id uuid references meditations(id),
 saved_meditation_id uuid references meditations(id),
 created_at timestamptz default now()
);
-- generation jobs
create table jobs (
 id uuid primary key default gen_random_uuid(),
 user_id uuid references auth.users(id),
 meditation_id uuid references meditations(id),
 kind text check (kind in ('personal','gift')),
 status text,
 message text,
 error_message text,
 created_at timestamptz default now(),
 updated_at timestamptz default now()
);
-- streaks
create table user_streaks (
 user_id uuid primary key references auth.users(id),
 streak_count int default 0,
 longest_streak int default 0,
 last active date date
```

```
);
-- notification prefs
create table user_notification_prefs (
 user_id uuid primary key references auth.users(id),
 daily_enabled boolean default true,
 daily_time_local text default '08:00', -- "HH:mm"
 streak_nudge_enabled boolean default true,
 timezone text default 'America/Los_Angeles',
 updated_at timestamptz default now()
);
-- registered devices for Expo push
create table devices (
 id uuid primary key default gen_random_uuid(),
 user_id uuid references auth.users(id),
 expo_push_token text not null,
 platform text,
 created_at timestamptz default now(),
 updated_at timestamptz default now()
);
```

**RLS:** each table restricted to auth.uid() on their own rows. Web player assets served via **server-signed Storage URLs** (no direct bypass of RLS).

### 14) Backend API (Node)

```
POST /auth/magic-link \rightarrow (optional helper) send magic link via Su pabase GET /voices \rightarrow [{ id,label,tier,previewUrl,durationSec }] \rightarrow [{ key,label,vibe,previewUrl,durationSec }]

POST /transcribe \rightarrow { transcript } (temp upload \rightarrow Whisper \rightarrow delete raw on success)
```

```
POST /meditations
                                 → create job (personal); returns { jobId }
                             → create job (qift); returns { jobId }
POST /qift
GET /jobs/:jobld
                                → { status, message, meditationId? }
PATCH /meditations/:id/title
                                   \rightarrow { title }
POST /meditations/:id/download → mark/download intent (optional an
alytics)
GET /usage/weekly
                                  → { personalUsed, giftUsed, personalCap,
giftCap, resetsAt }
GET /me/notification-prefs
                                   → prefs
PATCH /me/notification-prefs
                                     → update prefs
POST /devices
                                → register Expo push token
-- Web player (public endpoints)
GET /gift/:slug
                              → boot data (title, duration, audio signed URL,
latest-sharer name)
POST /qift/:id/claim
                                → (requires email) creates account via magi
c flow and clones gift into library
```

#### Generation job statuses (for spinner UI):

- queued → "Queuing your request..."
- generating\_script → "Crafting your script..."
- tts → "Synthesizing voice..."
- mixing → "Mixing your meditation..."
- ready  $\rightarrow$  "Your meditation is ready."
- error → "We hit a snag. You can retry."

# 15) Config Files (server/config)

```
// config/audio.ts
export const audioConfig = {
```

```
output: { container: "mp3" as const, bitrateKbps: 160, sampleRateHz: 44100,
loudnessTargetLUFS: -16, peakDbfsCeiling: -1, endFadeSeconds: 5 },
 mixing: {
  voiceGainDb: 0,
  bgGainDb: -14,
  ducking: { enabled: true, whenVoicePresentDb: -4, attackMs: 120, releaseM
s: 300 },
  loopBackground: true,
  tailPadSeconds: 1
}
};
// config/audio-backgrounds.ts
export const bgPolicy = {
 fadeInSeconds: 1,
 fadeOutSeconds: 5,
 loop: true,
 loopCrossfadeMs: 250,
 normalizeLufs: -22,
 perBackgroundTweaks: {
  ocean_waves: { preEqLowCutHz: 60 },
  deep_ambient:{ preEqLowCutHz: 40 },
  crystal_bowls:{ preEqHighCutHz: 14000 },
  theta_beats: { preEqBandstopHz: [1000,3] },
  silence: {}
 }
};
// config/backgrounds.ts
export const backgrounds = [
{ key: "ocean_waves", label: "Ocean Waves", vibe: "calming, tidal, breath-lik
e" },
 { key: "deep_ambient", label: "Deep Ambient", vibe: "expansive, spacey, time
```

less" },

```
{ key: "crystal_bowls", label: "Crystal Bowls", vibe: "resonant, luminous" },
 { key: "theta_beats", label: "Theta Beats", vibe: "entraining, inward" },
{ key: "silence", label: "Silence", vibe: "pure presence" }
];
// config/voices.ts
export const voicesConfig = {
 basic: [
  { id: "HzVnxqtdk9eqrcwfxD57", label: "Neutral Calm" },
  { id: "voice_female_calm", label: "Female Calm" },
  { id: "voice_male_calm1", label: "Male Calm" }
 ],
 advanced: [
  { id: "HzVnxqtdk9eqrcwfxD57", label: "Neutral Calm" },
  { id: "voice_female_calm", label: "Female Calm" },
  { id: "voice_male_calm1", label: "Male Calm" },
  { id: "voice_female_assert", label: "Female Assertive" },
  { id: "voice_male_calm2", label: "Male Calm 2" }
 ],
 defaults: { speakingRate: -5, style: { stability: 0.7, similarityBoost: 0.8, usePac
ing: true } }
};
// config/prompts.ts
export const visionPrompts = {
 categories: {
  health: [
   "When you imagine your healthiest self, what daily practices support yo
u?".
   "How would your energy and vitality feel in your body if you lived this wa
v?"
  ],
  wealth: [
```

"What does true financial freedom mean to you?",

```
"How would you use your resources to support the life and impact you des
ire?"
  ],
  relationships: [
   "What qualities do you want to embody in your relationships?",
   "Imagine your ideal connection—how does it feel, and how do you show u
p?"
  ],
  love: [
   "What does love look and feel like at its most expansive in your life?",
   "What kind of partner are you becoming in order to invite this love?"
  ],
  play: [
   "What activities light you up with pure joy?",
   "How do you want play and fun to show up in your everyday life?"
  ],
  purpose: [
   "What do you feel called to create or contribute to the world?",
   "If you lived fully aligned with this purpose, what would your days look lik
e?"
  ],
  spirit: [
   "How do you experience your deepest connection to spirit or source?",
   "What practices help you feel anchored in that connection?"
  ],
  healing: [
   "What areas of your life or body feel ready for healing?",
   "How would your life shift if this healing unfolded fully?"
  ],
  freeform: [
   "What's alive in you right now that you'd like to bring into vision?",
   "If you could create or shift one thing immediately, what would it be?"
  ]
 },
```

```
aiFollowups: { enabled: true, minFixed: 2, maxFollowups: 3 }
};
// config/aiFollowups.ts
export const aiFollowups = {
 mode: "hybrid" as const,
 weights: { depth: 0.7, expansion: 0.3 },
 guardrails: { avoidTherapyClaims: true, avoidMedicalAdvice: true, inviteNotC
ommand: true },
 styleHints: [
  "mirror user language sparingly",
  "ask one clear question at a time",
  "offer an optional sensory nudge if stuck (e.g., sight/sound/body)"
1
};
// config/scriptGen.ts
export const scriptGenConfig = {
 model: "qpt-4.1",
 narrationWpm: 135,
 durationWordTargets: { 5: 675, 10: 1350, 15: 2025, 30: 4050, 60: 8100 },
 systemPrompt: `
You write guided meditations that help users mentally rehearse their desired f
uture and embody it now.
Principles:
- Calm, grounded, precise language with warmth. Avoid jargon and claims.
- Invite, never command. Gentle second-person ("you").
- Use [pause] sparingly for brief silences.
- Weave in the user's own words for salience.
- Match pacing to duration; allow silence between paragraphs.
- End with a gentle closing and ~5-second quiet fade.
Structure:
1) Arrival & Breath
```

- 2) Intention in the user's language
- 3) Rehearsal (multi-sensory scenes; identity statements)
- 4) Embodiment (felt sense; micro-actions)
- 5) Closing (gratitude & gentle return)

#### Constraints:

- No absolutes/guarantees or medical/therapeutic advice.
- Vary sentence length; slow cadence.
- If background suggests a vibe (ocean/ambient/bowls/theta/silence), match s ubtly.

#### Output:

- Provide only the script text. No headings or metadata.
- Respect target words: {{TARGET\_WORDS}} ±10%.

```
`,
templateVars: ["USER_NAME","CATEGORY","BACKGROUND_TYPE","DURATI
ON_MIN","TARGET_WORDS","USER_RESPONSES_SUMMARY"]
};
```

```
// config/naming.ts
export const namingConfig = {
   style: "descriptive" as const,
   title: { minWords: 2, maxWords: 5, maxChars: 48, disallowEmojis: true, disallo
   wPunctuation: true },
   prompt: `
   Create a short, descriptive meditation title (2–5 words) in Title Case.
   Avoid emojis, punctuation, numbers, personal names, and health claims.
   Do not reference background sounds or music.

Base it on the meditation's theme and category.
Return ONLY the title.

Context:
   Category: {{CATEGORY}}
User theme: {{USER RESPONSES SUMMARY}}
```

```
};
// config/sharing.ts
export const sharingConfig = {
 enabled: true,
 formats: { audiogram: { enabled: true, maxLengthSec: 60 }, quoteCard: { ena
bled: true }, webPlayer: { enabled: true } },
 branding: {
  footerText: "Made with Lucid Vision ",",
  logoAsset: "branding/logo-white.png",
  themeColors: {
   health: #6DD5FA", wealth: #FFD54F", relationships: #F48FB1", spirit: #95
75CD",
   purpose:"#81C784", play:"#FFB74D", love:"#E57373", healing:"#4DB6AC",
freeform: #9CA3AF"
  }
}
};
// config/featureFlags.ts
export const featureFlags = {
 sharing: { enabledForPermanent: true, enabledForGift: true },
 notifications: { local: true, remote: true }
};
// config/giftMeditations.ts
export const giftMeditationConfig = {
 maxDurationMinutes: 15,
 allowedDurations: [5,10,15],
 publicLinks: { permanent: true },
 webPlayer: { showSaveCta: true, personalizeHeader: true } // "A Gift Meditati
```

```
on from [FirstName]"
};
```

```
// config/subscriptions.ts
export const subscriptionPlans = {
 weekStartsOn: "monday",
 basic: {
  weeklyPersonalLimit: 3,
  weeklyGiftLimit: 3,
  maxDurationMinutes: 15,
  voices: ["HzVnxqtdk9eqrcwfxD57","voice_female_calm","voice_male_calm
1"],
  backgrounds: ["ocean_waves","deep_ambient","crystal_bowls","theta_beat
s", "silence"]
 },
 advanced: {
  weeklyPersonalLimit: Infinity,
  weeklyGiftLimit: Infinity,
  maxDurationMinutes: 60,
  voices: ["HzVnxqtdk9eqrcwfxD57","voice_female_calm","voice_male_calm
1","voice_female_assert","voice_male_calm2"],
  backgrounds: ["ocean_waves","deep_ambient","crystal_bowls","theta_beat
s","silence"]
}
};
// config/notifications.ts
export const notifications = {
 dailyDefaultTime: "08:00",
 streakNudgeTime: "20:00",
 allowUserTimePreference: true,
 channels: { generation: { id: "generation", name: "Meditation Generation" } }
};
```

# 16) Environment Variables (server)

```
SUPABASE_URL=
SUPABASE_SERVICE_ROLE_KEY=
OPENAI_API_KEY=
ELEVENLABS_API_KEY=
FFMPEG_PATH= # if not using ffmpeg-static
EXPO_ACCESS_TOKEN= # for server-side Expo push
APP_PUBLIC_URL=https://lucidvision.app
SUPERWALL_API_KEY=
```

# 17) Client Implementation Notes (Expo)

- Audio mode: set staysActiveInBackground based on tier:
  - Advanced → true (play in background/screen off)
  - Basic → false (pause on background/screen off)
- Preview components: VoicePicker & BackgroundPicker (one-at-a-time playback, cached)
- Player: Play/Pause, scrub, elapsed/total, ±15s
- Generation: POST create → poll /jobs/:id → local notify on ready
- Quota: call /usage/weekly for Basic meter & gating
- Badges: <sup>†</sup> Gift (creation, playback, gift tab cards), <sup>★</sup> Favorite, <sup>★</sup> Pinned, 
   Downloaded
- Streak: show 🤚 in sidebar; update on completion; cloud sync on app open
- Notifications: register push token; schedule local reminder; 8 PM streak nudge logic

### 18) Web Player (Public)

- Minimal player UI; shows "A Gift Meditation from [FirstName]"
- · Full playback via signed Storage URL

- Prominent Save this meditation CTA (magic link flow → app download → saved in library)
- Re-share generates new sharer record (lineage), latest sharer shown in header

# 19) Edge Cases & Policies

- **Playback lock when lapsed** (both tiers). Downloads remain on disk but won't play in-app until subscription restored.
- Saved gifts are outside quota and permanent for the recipient; sender deletion does not remove saved copies.
- **Re-share** is **unlimited** and **does not** consume gift quota.
- **Gift links** are permanent; no revoke in v1.
- Background audio & voice in received gifts are locked; recipient can rename title.
- No listening history on cards (keep UI clean).
- **Review/Edit step** for all voice → text or typed answers before they're used.
- **Immediate deletion** of raw mic audio on successful transcription; retain <24h on failure.