

# CH08 — Entitlements & Plan States

This chapter defines the plan states (Guest/Free/Pro/Trial), the global entitlement matrix, and the app-wide gating behaviors that every feature must respect. It is the single source of truth for what each user can do in V1.

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**Depends on:** HZ-V1-CH00 (Manifest), HZ-V1-CH07 (Auth & Account), HZ-V1-CH25 (Monetization), HZ-V1-CH30 (Safety/Abuse), HZ-V1-CH31 (Error States)

**Related:** CH12-CH22 (Flow Builder & Practice), CH17-CH19 (Sharing/Inbox/Imports), CH29 (Storage & Limits), CH34 (Export & Deletion), CH33 (Analytics)

**Supersedes:** None (first revision)

**Owned decisions:** Plan definitions; entitlement evaluation order; global gating UX patterns; Free caps that are already locked; Practice credit rules; Trial downgrade rules; restore purchase expectations.

## Open questions / placeholders

These are not decided in CH08. They must be handled as placeholders and owned by the listed chapters.

- **PLACEHOLDER:** Pro share-link daily cap (if any). Owner: CH17/CH30. Default: soft caps only.
- **PLACEHOLDER:** Pro saved-flow soft cap (if any). Owner: CH15/CH30.
- **PLACEHOLDER:** Pro inbox cap (if any). Owner: CH18/CH30.
- **PLACEHOLDER:** Offline subscription verification grace period (hours/days). Owner: CH28.
- **PLACEHOLDER:** Exact paywall copy, scientific claims placement, and education pages. Owner: CH25/CH26.
- **PLACEHOLDER:** Exact node caps or other creation caps beyond branch=10. Owner: CH12/CH30.

## 1. Plan states (authoritative definitions)

**Important:** “Plan state” is not just pricing. It is a runtime state that changes what UI actions are allowed, what data can be persisted, and what screens must appear when a user attempts a restricted action.

### 1.1 Core plan states (V1)

- **Guest** — No account. Can explore curated demo content and optionally interact in limited, non-persistent ways. Guest cannot persist anything (no saving flows, no saving custom moves, no saving practice history).
- **Free** — Account exists, no active subscription. Can build and save up to 2 flows. Cannot use Practice Mode except via monthly credits. Inbox items are view-only and cannot be practiced.
- **Pro** — Active subscription. Full access to Practice Mode, unlimited saved flows (subject to abuse soft caps), media uploads (subject to 2GB cap), and higher operational limits.
- **Trial** — Time-limited entitlement that behaves exactly like Pro. Trial ends automatically; user becomes Pro (paid) if converted, otherwise downgrades to Free.

### 1.2 Derived runtime states (implementation convenience)

These are not separate products; they are derived runtime states that influence gating and messaging.

- **Pro (grace)** — Subscription was active recently but cannot be verified due to network / StoreKit failure. Allow Pro features for a short grace window (owned by CH28). Display a non-blocking banner: “Can’t verify subscription right now. Some Pro features may pause if this continues.”
- **Downgraded** — User was Pro/Trial, now Free. App must preserve existing data but enforce Free gates going forward (e.g., practice locked, flow cap behavior).
- **Account required** — A gating trigger that forces Guest → account creation before any persistence action.

## 2. Entitlement evaluation order

The app must compute a single **effective entitlement snapshot** at runtime. Every screen and action reads from that snapshot (not from scattered flags).

- If no authenticated user -> state = **Guest**.
- If authenticated user -> start as **Free**.
- If StoreKit indicates active subscription OR trial -> state = **Pro/Trial** (Trial behaves as Pro).
- If StoreKit cannot verify and a recent verified snapshot exists -> state may be **Pro (grace)** (owned by CH28).
- If user is in transition (purchase pending) -> keep current state but show purchase-in-progress UI; do not unlock until confirmation.

### Snapshot fields (minimum)

- planState: guest | free | trial | pro | pro\_grace
- canPersist: boolean (guest=false)
- savedFlowCap: integer or None (None = unlimited)
- inboxCap: integer or None
- canPractice: boolean
- practiceCredits: integer (free only; resets monthly)
- canPracticeInboxItems: boolean
- canUploadMedia: boolean
- mediaCapBytes: integer (2GB cap applies to Pro uploads; owned by CH29)
- branchCapPerMove: integer (10; global lock)
- gatingReasonCodes: canonical strings used for analytics + consistent UI copy

## 3. Global gating UX patterns (no-guesswork rules)

When a restricted action is attempted, the UI response must be consistent across the app. This section standardizes the gating patterns so users do not feel tricked or confused.

### 3.1 Gating components (standard)

- **Account gate** (Guest → Sign Up): used for any persistence attempt (save flow, save move, save edits, save practice log, export).

- **Paywall gate** (Free → Pro/Trial): used for Pro-only features (Practice, upload media, etc.). Uses CH25 for final layout + copy; CH08 defines when it triggers.
- **Soft cap gate** (limits but not paywall): used for abuse prevention (see CH30). Typically: warning → cooldown → block.
- **Upsell inline**: non-blocking prompt embedded in a relevant moment (e.g., practice tab teaser). Must not interrupt core actions more than once per session unless user taps for details.

### 3.2 Mandatory gating rules (V1 locks)

- **Guest cannot save anything.** Guest may browse and interact with demo content, but any attempt to save triggers Account Gate.
- **Free saved flows cap = 2.** Attempting to save a 3rd flow triggers a cap gate with two options: (1) Upgrade to Pro, (2) Manage flows (delete/replace).
- **Practice Mode is paywalled.** Free users can access Practice only via monthly practice credits and only for saved flows (not inbox items).
- **Free inbox cap = 10.** Free can view inbox items but cannot practice them. If inbox full, receiving import is blocked until user clears items or upgrades.
- **Uploads are Pro-only.** Uploaded videos are private-only and not shared; link-based media is shareable (see CH29).

## 4. Entitlement matrix (what each plan can do)

To avoid giant wide tables, the matrix is split by feature domain. Unless explicitly stated, Pro and Trial are equivalent.

### 4.1 Account & persistence

Capability	Guest	Free	Pro / Trial
Browse curated demo flows	Yes	Yes	Yes
Create account / log in	Prompted	N/A	N/A
Save flows (anywhere)	No	Yes (cap 2)	Yes (unlimited)
Save custom moves / edits	No	Yes	Yes
Practice history & streaks	No	Limited (credit sessions only)	Yes
Export data (future-proof)	No	Optional (placeholder)	Yes (placeholder)

### 4.2 Flows & flow builder

Capability	Guest	Free	Pro / Trial
Create/edit flows	Limited (demo-only)	Yes	Yes

Capability	Guest	Free	Pro / Trial
Outgoing branches per move	Up to 10	Up to 10	Up to 10
Merges (multiple incoming)	Yes	Yes	Yes
Dangling paths allowed	Yes	Yes	Yes
Reorder nodes / replace root	Yes	Yes	Yes
Save drafts	No (no persistence)	Yes	Yes

#### 4.3 Sharing & Inbox

Capability	Guest	Free	Pro / Trial
Create unlisted share links	No	Limited (placeholder)	Yes (higher limits; placeholder)
Open share link & view flow	Yes	Yes	Yes
Accept imports into Inbox	Yes (view-only)	Yes (cap 10; view-only)	Yes (cap soft)
Practice imported Inbox item	No	No	Yes
Move Inbox item to saved library	No	Yes (if within flow cap)	Yes

#### 4.4 Practice Mode

Capability	Guest	Free	Pro / Trial
Practice saved flows	No	Yes (credits only)	Yes (unlimited)
Practice Inbox items	No	No	Yes
Monthly practice credits	N/A	3 / month	N/A
Practice session length	N/A	No restriction	No restriction
Logging (actual duration)	No	Yes (credit sessions)	Yes

#### 4.5 Media rules

Capability	Guest	Free	Pro / Trial
Attach link-based media (YouTube, etc.)	View only	Yes	Yes
Upload video from gallery/camera	No	No	Yes (private-only)
Upload cap (all uploads total)	N/A	N/A	2GB total cap

Capability	Guest	Free	Pro / Trial
Uploads are shareable via links	No	No	No (private-only; use links to share)

## 5. Practice credits (Free)

Practice is a Pro feature. Free users receive a small number of **practice credits** so they can experience the core value without immediately hitting a hard wall.

- **Grant:** Free receives 3 practice credits per month (reset monthly).
- **Spend rule:** Starting a Practice session on a **saved flow** consumes 1 credit. Credits cannot be used on Inbox items.
- **Scope:** Credit covers the entire session regardless of duration or number of paths selected.
- **Exhaustion behavior:** When credits = 0, attempting to start practice triggers Paywall Gate (CH25).
- **Transparency:** Practice entry points must clearly show remaining credits: “Credits: 2/3 this month”.
- **Anti-exploit:** Credits cannot be transferred; reinstalling does not reset credits; credits are tied to account.

### 5.1 Credit UI surfaces (minimum)

- Practice tab header: shows remaining credits (Free only).
- Flow detail screen: practice CTA shows either “Practice (1 credit)” or “Practice (Pro)”.
- Paywall: includes a short explanation that Pro removes credit limits and unlocks full practice features.
- Settings -> Subscription: shows current plan and next renewal date (Pro/Trial) or upgrade CTA (Free).

## 6. Trial behavior (7-day trial)

- **Trial = Pro.** During trial, all Pro gates are removed (Practice, uploads, etc.).
- **Start trial triggers:** any Pro-only gate can offer a trial CTA (owned by CH25).
- **End of trial:** if user converts, plan becomes Pro; if user cancels or trial expires without conversion, plan becomes Free.
- **Downgrade enforcement:** if user downgrades to Free and has more than 2 saved flows, do not delete data; enforce cap by making flows beyond the cap read-only until upgrade or deletion (UX owned by CH15/CH25).
- **Restore purchases:** must be available from Settings and from paywall if purchase state is unclear.

## 7. Standard gating copy (non-final, but canonical intent)

Exact marketing copy is owned by CH25/CH26. CH08 defines the intent so engineering can implement consistent triggers.

- **Account Gate (Guest saving):** “Create an account to save your work.” Secondary line: “Guest mode is for exploring only.”

- **Flow cap gate (Free cap=2):** “You’ve reached the Free limit (2 saved flows).” Options: “Upgrade to Pro” and “Manage flows”.
- **Practice credit gate:** If credits remain: “This practice uses 1 credit.” If credits exhausted: “Practice is a Pro feature.”
- **Inbox practice gate (Free):** “Save this flow to your library to practice it.” (then apply flow cap rules).
- **Upload gate (Free):** “Uploads are Pro-only. Use links to share videos.”

## 8. Subscription system expectations (StoreKit)

Implementation details live elsewhere, but CH08 defines what must be true from the product perspective for App Store readiness.

- Use StoreKit subscriptions (iOS-only V1).
- A single monthly product at \$9.99 with a 7-day trial is the default direction (see CH25).
- The app must support: purchase, restore, cancel flow (link out to Apple subscription management), and a clear plan status screen.
- When purchase is pending or fails, keep user in their current plan and show a recoverable error state (see CH31).

## 9. Analytics hooks (entitlement-related)

Event taxonomy is owned by CH33, but CH08 specifies the minimum events needed to validate gating and conversion flows.

- entitlement\_snapshot\_loaded (planState, creditsRemaining, caps)
- gate\_shown (reasonCode, planState, surface=flow\_save|practice\_start|upload|share|inbox)
- upgrade\_clicked (surface, planState)
- trial\_started / purchase\_started / purchase\_success / purchase\_failed
- restore\_clicked / restore\_success / restore\_failed
- credit\_spent (flowId, sessionId)
- downgrade\_detected (previousPlan, newPlan, hasOverCapFlows)

## 10. Acceptance tests (Given / When / Then)

- **Guest saving:** Given I am a Guest, when I tap Save on a flow, then I see the Account Gate and the flow is not persisted.
- **Free flow cap:** Given I am Free with 2 saved flows, when I attempt to save a new flow, then I see the cap gate with Upgrade and Manage options, and the save does not complete.
- **Free credits:** Given I am Free with 2 credits remaining, when I start Practice from a saved flow, then 1 credit is consumed and the session begins.
- **No inbox practice for Free:** Given I am Free, when I open an Inbox flow and tap Practice, then I see gating that instructs saving to library (and cap rules apply).

- **Inbox cap:** Given I am Free with 10 inbox items, when I receive another import, then the import is blocked with a clear message and a CTA to clear items or upgrade.
- **Trial parity:** Given I am in Trial, when I open Practice or Upload, then no paywall or credit gates appear.
- **Downgrade behavior:** Given I was Pro and saved 10 flows, when my plan becomes Free, then my data remains intact and the app enforces Free cap without deleting flows.
- **Uploads:** Given I am Pro, when I upload a video under the 2GB cap, then it saves as private-only and is not included in share payloads.

## 11. Replit build prompt (chapter-specific)

You are implementing Handz V1. Use CH00 and CH08 only.

Goal: implement a global Entitlements system and gating utilities that every screen can call.

Build steps:

1) Create an EntitlementsContext that exposes:

- planState (guest/free/trial/pro/pro\_grace)
- caps (savedFlowCap=2 for free; inboxCap=10 for free; branchCapPerMove=10)
- practiceCreditsRemaining (free only; 3/month)
- booleans: canPersist, canPractice, canPracticeInboxItems, canUploadMedia, canCreateShareLinks

2) Implement a single function: requireEntitlement(action, context) -> { allowed, gateType, reasonCode }.

Actions to support now:

- SAVE\_FLOW, START\_PRACTICE\_SAVED\_FLOW, START\_PRACTICE\_INBOX\_FLOW, UPLOAD\_MEDIA, CREATE\_SHARE\_LINK, ACCEPT\_IMPORT, SAVE\_CUSTOM\_MOVE

3) Implement standard gating surfaces:

- AccountGateModal for Guest persistence attempts
- PaywallModal for Pro features (stub content; final layout owned by CH25)
- CapGateSheet for flow cap and inbox cap (Upgrade / Manage)

4) Wire gating into key CTAs:

- Save Flow button
- Practice button (Flow Detail)
- Practice button (Inbox item)
- Upload button (Move editor)
- Share button (Flow Detail)

5) Add analytics hooks:

- gate\_shown, upgrade\_clicked, credit\_spent (stub logger if analytics not ready)

Constraints:

- Do not guess caps; use CH08 exactly.
- If you must make an assumption, write it in a PRD\_ASSUMPTIONS block and stop that feature.

## 12. Troubleshooting notes (chapter-specific)

- **Symptom:** user sees Pro UI but gates still appear. **Check:** entitlement snapshot refresh timing; ensure UI reads from the same snapshot used by requireEntitlement().
- **Symptom:** credits not decrementing. **Check:** credit spend is tied to “session start” and is transactional; prevent double-spend on screen re-mount.
- **Symptom:** user downgraded but cannot access any flows. **Check:** cap enforcement should be “read-only beyond cap”, not “hide everything”.
- **Symptom:** Inbox full blocks imports unexpectedly. **Check:** distinguish “import receipt” vs “save to library”; Free cap 10 applies to Inbox items stored.
- **Symptom:** uploads included in share payloads. **Check:** enforce CH29: uploaded media is private-only and must be excluded from share/export.