

CH18 — Inbox: Receiving Imports (R1)

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Required Header Block

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Revision: R1 (2026-01-02)

Status: Draft (chapter-level; locks noted below)

Depends on: CH07 (Auth & Account), CH08 (Entitlements), CH17 (Sharing Links), CH19 (Import Conflicts), CH15 (Library), CH16 (Flow Detail), CH30 (Safety/Abuse), CH31 (Error States)

Related: CH03 (Glossary), CH04 (Nav Map), CH05 (Screen Inventory), CH20–CH22 (Practice), CH29 (Storage & Limits), CH33 (Analytics)

Supersedes: None (new chapter)

Owned Decisions (locked by this chapter): CH18.1–CH18.9 (Inbox behaviors, gating, UI copy, routing assumptions, data contract for inbox items, deletion rules)

Open Questions / Placeholders: CH18-P1–CH18-P12 (explicit list in §11)

0. Why CH18 exists

Handz uses unlisted share links (CH17) so coaches/fighters can send flows and gameplans to other users without public feeds. CH18 defines the receiving-side experience: what happens when someone opens an import link, where it lands, how it is stored, how the Inbox works, and how users move an imported flow into their own library without breaking plan limits or creating loopholes.

Important: CH18 owns only the receiving + Inbox side. How links are created/revoked and anti-abuse thresholds are owned by CH17/CH30.

1. V1 locks (from CH00) that govern CH18

These are global locks already agreed in CH00 and must be implemented exactly as stated (CH00 §5 Decision Log & Locks).

- Inbox cap (Free): 10 items.
- Free can view Inbox items but cannot practice Inbox items.
- Practice is paywalled; Free receives 3 monthly practice credits usable only on saved flows (not Inbox).
- Saved flows cap (Free): 2 saved flows.
- Uploads (user video files) are Pro-only and private-only; uploads are not shareable. Links are shareable.

2. Definitions (receiver-side)

- **Import link:** an unlisted URL generated by the sender (CH17) that resolves to a Flow Snapshot payload.
- **Flow Snapshot:** an immutable copy of the sender's flow content at the time of link generation or at the time of import (see CH17 for which).
- **Inbox Item:** a stored import record under the receiving user's account; used as a staging area before the flow is moved into their Library.
- **Add to Library:** the act of turning an Inbox Item into a user-owned Flow in the receiver's Library (subject to plan caps).
- **Preview mode:** view-only rendering of a flow snapshot; no edits; no practice; no persistence unless user is authenticated and chooses to save.
- **Conflicts:** mismatches between sender payload and receiver library (missing moves, custom move metadata, naming conflicts). Owned by CH19.
- **Inbox Overflow:** user has reached the plan's inbox cap; the app must block saving to Inbox and show an upgrade/manage path.

3. High-level user journeys (end-to-end)

3.1 Open an import link (all users)

- User taps an import link (from SMS/Notes/AirDrop/etc). The app deep-links into an Import Landing screen.
 - If the app is not installed: the link opens a web landing page that instructs to install Handz, then re-open the link (placeholder: exact web flow owned by CH17).
 - If the app is installed: open the app directly to Import Landing.
- Import Landing fetches the Flow Snapshot from backend using the link token (CH17).
- Import Landing displays:
 - Flow name + short summary (if provided).
 - Creator display name (or anonymized handle) and optional avatar if shareable.
 - Badges: contains custom moves, contains links, contains private uploads (not included), node count / branch count.
 - Primary CTAs depend on entitlements (see §4).

3.2 Save into Inbox (Free/Pro only)

- User taps **Save to Inbox** on Import Landing.
- If Inbox not full: create Inbox Item and navigate to Inbox Detail (or show toast + go to Inbox list; see §6).

- If Inbox full: block, show **Inbox Full** modal (see §7).
- Inbox Item remains view-only until moved into Library.

3.3 Add to Library (Free/Pro only; gated by caps)

- From Import Landing or Inbox Item, user taps **Add to Library**.
- If CH19 conflicts exist: run the CH19 conflict resolution flow first, then proceed.
- If user is Free and already at 2 saved flows: block and show paywall/management options (see §8).
- If allowed: create a new user-owned Flow in Library, then remove (or mark converted) the Inbox Item (see §9).

3.4 Guest behavior (preview-only)

- Guest can open import link and preview the flow.
- Guest cannot Save to Inbox and cannot Add to Library.
- Guest sees clear CTAs to create an account (Apple/Google/Email) to save flows.
- Guest sees a compact explanation of what saving enables (flows, practice credits, edits later).

4. Entitlement-based behavior matrix (no guesswork)

CH08 owns the definitions of Guest/Free/Pro/Trial and how gating is implemented globally. CH18 defines the receiving-import surface rules and must map to CH08.

- **Guest:** no persistence. No Inbox saves. No Library saves.
- **Free:** can save imports to Inbox (cap 10). Can add to Library only if under saved flow cap (2). Cannot practice Inbox items. Practice credits (3/mo) only usable on saved flows.
- **Pro (and Trial):** can save to Inbox (cap = placeholder, but must be \geq Free cap). Can add to Library without saved flow cap (or very high cap). Can practice saved flows (no credits). Cannot practice Inbox items; must add to Library first.

4.1 CTA visibility on Import Landing

- Guest sees:
 - Primary button: **Create account to save**
 - Secondary: **Preview**
 - Tertiary: **Why create an account?** (opens mini sheet)
- Free sees:
 - Primary: **Save to Inbox** (if not full)
 - Secondary: **Add to Library** (if under saved flow cap)
 - Secondary alt when at saved cap: **Upgrade to Pro to save** (or **Manage saved flows**)
 - Always: **Preview**

- Pro/Trial sees:
 - Primary: **Add to Library**
 - Secondary: **Save to Inbox**
 - Always: **Preview**

5. Screen + component specs

Exact placement in navigation is owned by CH04/CH05. CH18 still specifies the receiver-side screens and their required UI elements, buttons, and routing targets.

5.1 Screen: Import Landing (Deep Link)

Route: /import/:token (placeholder; final route owned by CH04).

Purpose: Show a trustworthy preview and let eligible users save the import.

UI sections (top-to-bottom):

- Header
 - Back button (if opened from within app) OR close (if launched from deep link).
 - Title: “Import Flow”
- Flow card
 - Flow Name (truncate to 2 lines).
 - Creator line: “From: ” (or “From: Unlisted share”).
 - Optional small chips: “Custom Moves”, “Links Included”, “Uploads Not Shared” (only show if true).
 - Meta row: “Nodes: ## • Branches: ## • Updated: ” (dates placeholder).
- Preview snippet
 - Mini flow thumbnail (static render) OR first 5 nodes preview list (placeholder; owned by CH16 rendering rules).
 - Tap opens full Preview screen (5.2).
- Primary actions
 - Buttons depend on entitlement (see §4.1).
 - If blocked by caps: show button disabled with inline helper text (see §7–§8).
- Trust + privacy note (always visible, small)
 - Text: “This is an unlisted link. Only people with the link can view it.”
 - If payload contains links: “External video links may open outside the app.”
 - If payload references uploads: “Uploaded videos are private and won’t transfer via link.”

5.2 Screen: Import Preview (View-only)

Route: /import/:token/preview (placeholder).

Purpose: Let receiver inspect the full flow snapshot before saving.

- Header
 - Back
 - Title: Flow Name
 - Overflow menu (■): “Report issue” (placeholder; owned by CH30/CH31)
- Flow renderer
 - Uses the same renderer as Flow Detail (CH16) but in strict view-only mode.
 - No edit controls.
 - Pan/zoom behavior mirrors CH12.
 - Tapping nodes opens Node Detail read-only sheet (move name, tags, any shared notes, links).
- Bottom action bar
 - Same CTAs as Import Landing: Save to Inbox / Add to Library / Create account to save.
 - If blocked: show disabled with clear helper text.

5.3 Screen: Inbox List

Route: /library/inbox (recommended; final owned by CH04).

Purpose: Staging area for incoming flows before they’re added to Library.

- Header
 - Title: “Inbox”
 - Right icon: “Info” (opens sheet explaining Inbox vs Library) and/or “Manage” (bulk actions).
 - Subheader counter: “/ saved” for Free; show only the cap relevant to plan.
- Empty state
 - Illustration placeholder
 - Headline: “No imports yet”
 - Body: “When someone sends you a Handz link, it’ll show up here after you save it.”
 - CTA: “Learn how sharing works” (opens CH17 education screen, placeholder).
- List item card (each Inbox Item)
 - Flow Name
 - From: CreatorName
 - Received date (relative)
 - Badges (optional): Unopened dot, Conflicts, Link Revoked, Custom Moves, Links Included, Uploads Not Shared

- Primary button: “View”
- Secondary actions (swipe or kebab): “Add to Library”, “Delete”
- Footer (Free only)
 - Soft warning strip when count ≥ 8 : “Inbox almost full (8/10). Delete items or upgrade.”
 - At 10/10: “Inbox full” strip with CTA: “Upgrade” and “Manage”

5.4 Screen: Inbox Item Detail

Route: /library/inbox/:inboxItemId

Purpose: View an imported flow snapshot and decide what to do next.

- Header
 - Back
 - Title: Flow Name
 - Overflow (☰): Delete, Report, Source info
- Source block
 - From: CreatorName
 - Received: date/time
 - Link status: Active / Revoked / Unknown (see §9.4)
- Flow preview
 - Same view-only renderer as Import Preview (5.2) but uses the stored Inbox payload (no refetch required).
- Action area
 - Primary: Add to Library (subject to caps and conflicts)
 - Secondary: Delete from Inbox
 - Note under Add: “You can’t practice from Inbox. Add to Library first.” (Free + Pro).
- If conflicts detected
 - Show a compact ‘Conflicts found’ panel with button “Resolve & Add to Library” (starts CH19).

6. Inbox item lifecycle rules

6.1 Creation rules

- Inbox items are created only when a signed-in Free/Pro/Trial user taps **Save to Inbox** (or an equivalent save action).
- Creating an inbox item stores a **snapshot payload** so the item remains usable even if the original link is later revoked.
- Inbox items are **view-only** until moved into Library (no edits, no practice, no exports).

- Inbox items do not count against “Saved flows” cap until they are added to Library.

6.2 Viewing rules

- Viewing an inbox item is always allowed for the owner user.
- If the original link is invalid/revoked later, the inbox snapshot still opens, but a banner states: “Source link is no longer active. This is your saved copy.”

6.3 Deletion rules

- Deleting an inbox item permanently removes it from the user’s account.
- Deletion must be confirmable with an undo toast for 5 seconds (placeholder; final UX owned by CH31).
- If deletion fails (offline): queue the delete; show “Will delete when you’re back online” (see CH28 offline queue).

6.4 Conversion rules: Inbox → Library

- Conversion is initiated by **Add to Library**.
- If conflicts exist, conversion must route through CH19 before writing the final Library flow.
- On successful conversion the app must:
 - Create a new user-owned Flow in the receiver’s Library with a new Flow ID.
 - Set metadata on the new Flow: `importedFrom = {creatorId, shareLinkId, importedAt}`.
 - Remove the Inbox Item OR mark it as Converted (default: remove; see CH18-P2).
- If conversion fails mid-way, the inbox item remains unchanged so the user can try again.

7. Free inbox cap behavior (10 items) + messaging

This chapter locks the functional behavior for the Free inbox cap. Exact warning ladder language can be refined under CH30, but the triggers and states below must exist.

7.1 Soft warning threshold

- Threshold: when Free inboxCount reaches 8 ($\geq 80\%$ of cap).
- Show non-blocking banner/strip on Inbox List and Import Landing when attempting to save: “Inbox almost full (8/10). Delete items or upgrade.”
- Banner includes action buttons: “Manage Inbox” and “Upgrade”.

7.2 Hard cap behavior

- At 10/10, Free cannot create new Inbox Items.
- When user attempts Save to Inbox (from Import Landing/Preview):
 - Block the action.

- Show modal: **Inbox Full**
- Body: “Your Free plan can hold 10 imports. Delete one to save this, or upgrade for a bigger inbox.”
- Buttons: Primary “Manage Inbox” (go to Inbox List), Secondary “Upgrade to Pro”, Tertiary “Cancel”.
- When user opens an import link while inbox full:
 - They can still Preview.
 - They can still Add to Library if they have saved-flow room (under 2).
 - If also blocked by saved-flow cap, show the saved-flow cap modal (§8).

8. Saved-flow cap behavior when adding to Library (Free cap = 2)

Free users must not be able to use imports as a loophole to practice without paying. Therefore: practicing from Inbox is blocked (global lock), and adding to Library is blocked once the Free saved-flow cap is hit.

8.1 Blocking state (Free at 2 saved flows)

- Trigger: Free user taps Add to Library, but their Library savedFlowCount is already 2.
- Behavior:
 - Block conversion.
 - Show modal: **Saved Flow Limit Reached**
 - Body: “Free accounts can save up to 2 flows. Delete one to save this import, or upgrade to save unlimited flows and practice more.”
 - Buttons: Primary “Upgrade to Pro”, Secondary “Manage My Flows”, Tertiary “Cancel”.
- Manage My Flows action:
 - Routes to Library list with a filter “Saved flows” and highlights delete controls.
 - After user deletes a flow and returns, the app should offer a one-tap retry: “Now save this import?”

8.2 When Free is under the saved-flow cap

- Add to Library is allowed (subject to CH19 conflicts).
- Once saved to Library, the flow becomes eligible for Free monthly practice credits (3/mo) and for all Pro features when upgraded.

9. Data model & storage contract (Inbox)

Implementation choices (Firebase vs others) are owned by CH29 and the engineering plan, but the **data contract** below must be met regardless of backend.

9.1 InboxItem schema (minimum required fields)

Schema (illustrative JSON):

```
InboxItem {
  id: string // stable per item
  ownerUserId: string
  shareTokenHash: string // do NOT store raw token if possible
  shareLinkId: string? // if available from CH17
  sourceCreatorId: string?
  sourceCreatorName: string? // display only
  sourceFlowName: string
  sourceFlowUpdatedAt: timestamp?
  receivedAt: timestamp
  lastOpenedAt: timestamp?
  status: "unopened" | "opened" | "converted" | "deleted"
  snapshotPayload: object // full flow snapshot (see below)
  flags: {
    hasCustomMoves: boolean
    hasExternalLinks: boolean
    hasPrivateUploads: boolean // true if sender had uploads that are not shared
    hasConflictsHint: boolean // quick indicator; real conflicts computed in CH19
    linkRevokedHint: boolean // optional
  }
  metrics: {
    approxNodeCount: number
    approxEdgeCount: number
    approxBranchingMax: number
  }
}
```

9.2 snapshotPayload requirements (what must be inside)

- Must include enough information to render the flow view-only without fetching anything else:
 - Flow graph: nodes, edges, layout metadata (or enough to recompute layout).
 - Move references: canonical IDs + display names as used by sender.
 - Optional sequence nodes (if present) and their text fields.
 - Any shared notes (flow-level notes; sequence notes).
 - External video links (URLs) if sender included them (shareable).
 - Exclude any private uploaded media binary. If sender used uploads, include placeholders indicating 'uploads not included' for those attachment slots.
- Must include a payloadVersion number so future schema changes can be migrated.

9.3 Storage limits for inbox items

- Inbox snapshots should be considered 'small' compared to video uploads, but still need limits to prevent abuse.

- Minimum V1 guardrails (placeholders; exact values owned by CH30): max snapshotPayload size, max nodes per imported flow, max imports per minute.
- If an import exceeds allowed size, show an error: “This import is too large to save. Ask the sender to simplify it.”

9.4 Link revocation behavior (snapshot vs source)

- Inbox item is a snapshot. Even if the sender revokes the share link later, the receiver’s Inbox snapshot remains viewable.
- The app may optionally re-check link validity in the background; if revoked, set flags.linkRevokedHint = true and show banner on item detail.
- Do not delete or invalidate the snapshot automatically; this would feel like content disappearing from the receiver.

10. Copy requirements (exact strings to implement in V1)

These strings are owned by CH18 for the Inbox/import receiving experience. They can be polished later but must stay meaning-consistent.

10.1 Import Landing

- **Title:** Import Flow
- **Primary (Guest):** Create account to save
- **Primary (Free):** Save to Inbox
- **Primary (Pro/Trial):** Add to Library
- **Secondary:** Preview
- **Helper note (uploads present):** Uploaded videos are private and won’t transfer via link.
- **Helper note (always):** This is an unlisted link. Only people with the link can view it.

10.2 Inbox List

- **Title:** Inbox
- **Empty headline:** No imports yet
- **Empty body:** When someone sends you a Handz link, you can save it here and add it to your library later.
- **Soft warning:** Inbox almost full (8/10). Delete items or upgrade.
- **Hard cap strip:** Inbox full. Delete an item or upgrade for a bigger inbox.

10.3 Modals

- **Inbox Full**

- Body: Your Free plan can hold 10 imports. Delete one to save this, or upgrade for a bigger inbox.
- Buttons: Manage Inbox (primary), Upgrade to Pro (secondary), Cancel (tertiary).
- **Saved Flow Limit Reached**
 - Body: Free accounts can save up to 2 flows. Delete one to save this import, or upgrade to save unlimited flows and practice more.
 - Buttons: Upgrade to Pro (primary), Manage My Flows (secondary), Cancel (tertiary).
- **Guest Save Block**
 - Body: Create an account to save flows and access practice mode.
 - Buttons: Continue with Apple (primary), Continue with Google, Continue with Email, Not now.

11. Open Questions / Placeholders (must be resolved later, not guessed)

Per CH00 §6, anything not locked must be explicitly tracked as a placeholder with an owner chapter.

- CH18-P1: Pro inbox cap (if any) • Owner: CH08/CH30 • Options: 50 / 200 / Unlimited • Default: 200
- CH18-P2: Whether Add-to-Library removes Inbox item or marks as Converted • Owner: CH18 • Options: Remove / Keep with status • Default: Remove
- CH18-P3: Whether Free can 'Save to Inbox' directly from Import Preview only, or also from Import Landing • Owner: CH18 • Options: Both / Preview-only • Default: Both
- CH18-P4: Whether to allow 'Save to Inbox' if saved-flow cap is reached (still view-only) • Owner: CH18/CH08 • Options: Allow / Block • Default: Allow (still view-only)
- CH18-P5: Snapshot payload size limit (KB) • Owner: CH30 • Options: 256KB / 512KB / 1MB • Default: 512KB
- CH18-P6: Imported flow node limit (anti-abuse) • Owner: CH30 • Options: 150 / 300 / 500 • Default: 300
- CH18-P7: Rate limiting thresholds for import saves • Owner: CH30 • Options: 10/min / 30/min / 60/min • Default: 30/min
- CH18-P8: 'Report issue' flow (what it does) • Owner: CH30/CH31 • Options: email link / in-app form / none • Default: email link
- CH18-P9: Whether imported flows can be exported by receiver before adding to library • Owner: CH34 • Default: No in V1
- CH18-P10: Deep-link fallback web landing copy • Owner: CH17 • Default: simple install instructions
- CH18-P11: Whether sender name/avatar is shown or anonymized by default • Owner: CH17/CH07 • Default: show display name only
- CH18-P12: Exact analytics events list and parameters • Owner: CH33 • Default: see §12 draft list

12. Analytics instrumentation (draft; owned by CH33)

CH33 will finalize event names and privacy notes. CH18 proposes the minimum events needed to measure sharing funnel health.

- import_link_opened
 - params: tokenHash, source=deeplink, userState=guest/free/pro
- import_preview_opened
 - params: tokenHash
- import_save_to_inbox_tapped
 - params: tokenHash, result=success|blocked_inbox_full|blocked_guest
- inbox_list_viewed
 - params: count, cap, plan
- inbox_item_opened
 - params: inboxItemId
- inbox_item_deleted
 - params: inboxItemId
- import_add_to_library_tapped
 - params: inboxItemId or tokenHash, result=success|blocked_saved_cap|blocked_guest|needs_conflict_resolution
- import_conflict_resolution_started
 - params: inboxItemId
- import_conflict_resolution_completed
 - params: inboxItemId, outcome=applied|cancelled

13. Acceptance test checklist (chapter-specific)

These tests must pass for CH18 to be considered implemented. Execute on physical iPhone and simulator.

- A. Guest receiving
 - Open valid import link as Guest -> Import Landing loads -> Preview works.
 - Guest taps Save to Inbox -> blocked -> Guest Save Block modal shows Apple/Google/Email options.
 - Guest closes modal -> remains in preview; no data persisted after app restart.
- B. Free inbox cap
 - Free user with 0 items saves an import -> item appears in Inbox list; count increments.
 - At 8 items, Inbox List shows soft warning strip.

- At 10 items, Save to Inbox is blocked from Import Landing and Preview; Inbox Full modal appears with correct buttons.
- When inbox full, Free user can still preview import link (no crash) and can still attempt Add to Library if eligible.
- C. Free saved-flow cap interactions
 - Free user with 1 saved flow can Add to Library from an inbox item -> succeeds -> saved flow count becomes 2 -> inbox item removed/converted.
 - Free user with 2 saved flows attempts Add to Library -> blocked -> Saved Flow Limit modal shows -> Manage My Flows routes correctly.
 - After deleting one saved flow, returning to inbox item allows Add to Library.
- D. Practice gating sanity
 - Free user cannot practice an Inbox item (no Practice button anywhere in Inbox).
 - Free user can practice a saved flow using a monthly credit (owned by CH20–CH22, but verify CH18 doesn't expose inbox practice).
- E. Conflict flow handoff
 - Import with missing move triggers 'Conflicts found' state; tapping Resolve & Add routes into CH19 flow.
 - Cancelling CH19 returns to Inbox Item Detail with no library write.
 - Completing CH19 creates library flow and removes inbox item.
- F. Offline/error handling
 - Open import link while offline -> shows error state with Retry (owned by CH31) and does not create inbox item.
 - Delete inbox item while offline -> queued; UI reflects pending deletion; completes when online.

14. Replit build prompt (implement CH18 only)

Paste the following into Replit Agent along with CH00 and this CH18 PDF. Tell it to implement only CH18 and treat all cross-references as dependencies.

You are implementing Handz V1 PRD Bundle (Bundle ID: HZ-V1).
Follow CH00 rules: stable IDs, no detail loss, required front-matter, cross-references.

Implement ONLY: CH18 – Inbox: Receiving Imports (R1).
Dependencies (do not invent rules): CH07, CH08, CH17, CH19, CH28, CH30, CH31, CH33.

Stack assumptions:
- iOS-only, portrait-only.
- Backend: Firebase (Auth + Firestore + Storage) unless already set up differently. If different, map the same data contract.

Tasks:
1) Create data model for InboxItem per CH18 §9.1 and storage paths under user scope.

- 2) Implement Import Landing screen for deep links (/import/:token). Fetch flow snapshot via API call (stub if CH17 not built).
- 3) Implement Import Preview screen (view-only renderer placeholder: show a simple list of nodes if CH12/CH16 not built yet).
- 4) Implement Inbox List screen with:
 - Empty state
 - List items with badges
 - Free cap indicator and soft warning at 8/10
 - Hard cap behavior at 10/10 (block Save to Inbox, show modal)
- 5) Implement Inbox Item Detail screen with view-only preview and actions:
 - Add to Library (calls CH19 if conflicts; stub route if CH19 not built)
 - Delete (with confirm + undo toast)
- 6) Enforce entitlements:
 - Guest: no Save to Inbox, no Add to Library; show account creation modal with Apple/Google/Email options.
 - Free: Inbox cap 10; Saved flows cap 2 (block add-to-library if at cap).
 - Pro/Trial: no saved-flow cap; allow saving/adding.
 - Never allow practicing from Inbox (do not render practice CTA in inbox screens).
- 7) Add analytics hooks (event stubs) per CH18 §12.
- 8) Add unit tests or integration tests for gating rules and cap logic.
- 9) If any assumption is required, write it in a PRD_ASSUMPTIONS comment block and stop that feature until confirmed.

Deliverables:

- Screens wired in navigation
- Deep link handler for /import/:token
- Firestore queries and write paths
- Modal components and copy exactly as CH18 §10

15. Troubleshooting notes (CH18)

- Deep link opens blank screen
 - Verify the iOS URL scheme / universal links configuration.
 - Log token parsing; ensure token is passed into fetch call.
 - If link is opened while app is cold-starting, ensure navigation waits for auth initialization.
- Inbox count mismatches cap
 - Confirm query filters out deleted/converted items.
 - Ensure offline cache isn't duplicating items; use item.id as document id for idempotency.
- Free user can practice an inbox item (bug)
 - Search UI for any Practice CTA reachable from Inbox screens; remove it.
 - Ensure practice setup screen refuses inboxItemId sources and requires a savedFlowId.
- Add to Library fails silently
 - Surface errors via CH31 standard error UI.
 - Ensure CH19 route returns a result; on cancel, do not write to library.
- Inbox full but Save to Inbox still works

- Enforce cap both client-side (UI) and server-side (Cloud Function/security rules) to prevent bypass.