

Phase-1 Closure of MH-BASELINE-HOT-RELOAD (post-Drill review)

Drill-Window: 2026-05-11 05:10 - 05:48 UTC

Bot Host-PID during drill: 2027796 (unchanged through entire window)

master HEAD at closure: 5cc7022

Backup: /srv/shares/backups/hr_6_drill_pre/ (TS 20260510T212506Z, sha256-manifest)

Ergebnis-Ampel

HR-6 BESTANDEN MIT FINDINGS

Apply -> Hot-Reload -> Verify -> Clear -> Hot-Reload-Zyklus mit zero-restart erfolgreich live bewiesen. F8 + F9 + F10 operationally validated. Acceptance-Matrix 13/13 erfüllt während Drill-Window (05:10-05:48 UTC). Drei Architektur-Findings dokumentiert (siehe Sektion 14 + 15) und durabel in Backlog gepinnt.

1. Chronologischer Ablauf

```
2026-05-10 21:25 UTC HR-6 P1 Pre-Drill-Backup
                    /srv/shares/backups/hr_6_drill_pre/

2026-05-10 21:36 UTC HR-6 P2 nginx temp-vhost :8444
                    TLS + Basic-Auth + limit_req

2026-05-11 05:10:28 UTC Operator 1. Apply (identical JSON)
                    --> Idempotency-Hit auf cmd 7
                    --> Filament returned existing cmd 7 UUID
                    --> F11 Toast misleading

(Diagnose)          Option-B-Workaround beschlossen
                    minimal-Diff (0G Faucet-Token entfernt)
                    /srv/shares/recon_2_4_holdings_hr6.json (445 Bases)
                    neuer canonical_hash b785414c

2026-05-11 05:10:28 UTC Operator 2. Apply via Filament (modifiziertes JSON)
                    --> cmd 9 pending
                    --> idempotency_key baseline:apply:b785414c

2026-05-11 05:14:09 UTC Worker --once #1 (apply, BOT_ENVIRONMENT=testnet)
                    --> cmd 9 succeeded
                    --> baseline_holdings.json written
                        34.997 bytes, sha256 e9325f1b...

2026-05-11 05:15:24 UTC Next Bot-Cycle (F9 Hot-Reload-Beweis #1)
                    [Universe] 0 Coins aktiv (trigger=baseline_mtime_drift)
                    Stage 1: 420 baseline_frozen, 1 candidate
                    Telegram-Reporter: "Universe Update: 0 Coins"

2026-05-11 05:35:45 UTC Operator Clear via Filament
                    --> cmd 10 pending
                    --> idempotency_key baseline:clear:20260511053545:ca89d2a4

2026-05-11 05:36:57 UTC Worker --once #2 (clear)
                    --> cmd 10 succeeded
                    --> baseline_holdings.json removed
                        + .bak file 20260511T053657Z erzeugt

2026-05-11 05:39:00 UTC Next Bot-Cycle (F9 Hot-Reload-Beweis #2)
                    [Universe] 67 Coins aktiv (trigger=baseline_mtime_drift)
                    Stage 1: 0 baseline_frozen, 221 candidates (symmetrisch)

2026-05-11 05:47:45 UTC nginx temp-vhost :8444 rolled back
                    External HTTP=000 (connection refused) verified
                    access_log retained (97 lines)

2026-05-11 05:48:28 UTC Audit-Event id=22 baseline.drill.HR-6.success
                    HR-6 FORMAL CLOSED
                    Bot Host-PID 2027796 unverändert seit 22:32 vortags

[POST-HR-6, NICHT DRILL-BEZOGEN]
2026-05-11 06:42:34 UTC Container clawbot externer Restart (ExitCode=0 sauber)
                    NICHT durch HR-6 verursacht, kein Crash
2026-05-11 06:45:09 UTC Watchdog restart --> neue Bot Host-PID 2848139
                    0 Tracebacks im neuen Bot, F8/F9-Code unverändert aktiv
```

2 . Commands entstanden

id	command_id	type	status	idempotency_key
7	ddb6aac5-...-50eb84fe7adc	apply_baseline_holdings	succeeded	baseline:apply:ddb3f7d4
9	04178768-...-5edd4f3e45a6	apply_baseline_holdings	succeeded	baseline:apply:b785414c
10	b7370e8d-...-b2b56c33382f	clear_baseline_holdings	succeeded	baseline:clear:20260511053545

cmd 7 ist historisch aus RECON-2.4-A.1 (2026-05-10 17:19 UTC), wurde in HR-6-Diagnose-Phase als Idempotency-Konflikt-Auslöser identifiziert. cmd 9 und cmd 10 sind die HR-6-eigenen Operations.

3 . Audit-Events entstanden

id	event_type	summary	TS
20	baseline.apply.requested	(440 assets, d1c4487e)	05:10:28
21	baseline.clear.requested	operator_clear	05:35:45
22	baseline.drill.HR-6.success	PASS: bidirectional hot-reload validated	05:48:28

Luecke (F6 bestaetigt): Worker-emitted Events baseline_holdings.apply_started / apply_succeeded / clear_started / clear_succeeded fehlen WEITERHIN in audit_events. PHP-Side-Audit ist vollstaendig, Worker-Side-Audit ist Mainnet-Vorbedingung (gepinnt fuer Phase 2B).

4-13 . Acceptance-Matrix

#	Item	Status
4	Apply erfolgreich	cmd 9 succeeded innerhalb TTL
5	Clear erfolgreich	cmd 10 succeeded innerhalb TTL
6	Hot-Reload ohne Bot-Restart (Drill-Window)	PID 2027796 unverändert 05:10-05:48
7	trigger=baseline_mtime_drift sichtbar	2x (05:15:24 + 05:39:00)
8	baseline_frozen wirkte	Stage 1: 0 -> 420 -> 0 baseline_frozen
9	frozen Assets nicht buybar	1 candidate post-apply, 0 final via Stage 2
10	baseline_holdings.json final absent	host + container ABSENT
11	Bot-PID unverändert während Drill	JA, im Drill-Window
11*	Bot-PID nach HR-6 (POST-DRILL)	externer Restart 06:42, ExitCode=0
12	Worker nur 2x --once	exact 2x (05:14:09 + 05:36:57)
13	Mainnet unberührt	BINANCE_TESTNET=true durchgehend

14 . Neue Findings

F-HR6-1 Stale-Snapshot-Activation-Risiko (HIGH)

--> Stale-snapshot-activation auf Mainnet gefährlich: Operator submittet alten JSON
 --> idempotency-hit --> Toast "created" misleading --> Operator denkt baseline
 ist neu aktiv, tatsächlich unverändert. Klassifikation M-1 in Architektur-Review.

F-HR6-2 Option-B-Pattern (JSON-Mod) Mainnet-GEFAEHRlich (CRITICAL)

--> minimal-Diff erzeugt Wallet-Signature-Mismatch (D-A6) bei Bot-Restart.
 Heute (Testnet, kein Restart während Drill) OK. Mainnet: sys.exit(1) Risiko.
 Durable Rule: HR-6-Pattern NIE auf Mainnet anwenden. Klassifikation M-3.

F-HR6-3 POST-HR-6 externer Container-Restart 06:42 UTC (NICHT drill-bezogen)

--> Container exit ExitCode=0 sauber, kein Crash, keine Tracebacks.
 Root-Cause nicht eindeutig (nightly-cron / VPS-Wartung / manuell).
 Pattern ähnlich Memory bot_restart_20260509_status.md
 KEIN HR-6-Verletzung (war nach Drill-Closure 05:48 UTC).

15 . Findings geschlossen

F8	Reader hot-reload	OK	operationally validated (Apply --> file detect --> Reader)
F9	Universe-cache mtime	OK	2x trigger=baseline_mtime_drift live im bot_stdout
F10	Spec-reconciliation	OK	Hybrid-Ansatz (stat + mtime-cache) funktional bestaetigt

16 . Backlog-Punkte bleiben

Phase 2 (MH-RECON-AUDIT-COMPLETION):

- F4 BOT_ENVIRONMENT=paper default (Phase 2B-1, Mainnet-Vorbedingung)
- F6 Worker audit-emit missing (Phase 2B-2/3, Mainnet-Vorbedingung)
- F7 canonical_hash PHP/Python drift (Phase 2B-4/5, Mainnet-Vorbedingung)
- F11 UI Notification Idempotency (Phase 2A-2, UX)
- F12 D-A8 race-test setup (Phase 2A-3, Multi-Worker-Vorbed.)
- F-TTL configurable APPLY_TIMEOUT_SECONDS (Phase 2A-1, Drill-Tooling)

Phase 3 (MH-NAMING-CLEANUP fertig):

- N-UI-8 PositionSnapshotResource display-mapping (Phase 3 NC-1)
- NC-2 Layer C-additive execution_mode (Phase 3 NC-2)

Phase X (RECON-MH-SNAPSHOTS, post-MH-1, NEU vorgeschlagen):

- Layer-Separation: baseline_snapshots + baseline_activations Tabellen
- activate_baseline_snapshot command-type (Replay-Flow)
- Filament Snapshot-History-View + Diff-View
- Multi-Wallet-aware idempotency-keys
- Disaster-Recovery-Workflow

DURABLE RULE (Mainnet-Block erweitert):

- Mainnet darf NICHT aktiviert werden bevor Phase X abgeschlossen ist UND F6+F7 fixed

UND Operator den Disaster-Recovery-Workflow geuebt hat.

17 . Dateien geändert (Session 2026-05-10 / 2026-05-11)

Committed (5 commits):

5cc7022 chore(naming) Daily Report Paper Mode -> TESTNET LIVE
reporter.py + 2x PDF + BotMonitoringSnapshot.php
c5eee7e docs(RECON-MH) sub-roadmap + audit-trail + drill-docs + daily_bugswarm
51 docs files
70ecfb0 chore(.gitignore) exclude Filament assets + ccgram-uploads + .claude
a139328 MH-BASELINE-HOT-RELOAD HR-2/3 + MH-NAMING-CLEANUP Layer A+B-light
18 files (Hot-Reload property + display-mapping + 8 test updates)
f54b4ca RECON-2.4-A.1 fixes F1+F3+F5 (Filament-v4 Get import, numeric-key, abs path)

Working-Tree uncommitted (Doc-only, sicher):

M docs/roadmap/.../10_backlog_future_extensions.md (N-UI-8 + F-TTL Pins)
?? sessions/phase_2_3_master_plan_2026-05-11.md
?? sessions/phase_2_audit_completion_review_2026-05-11.md
?? sessions/hr_6_idempotency_review_2026-05-11.md

Pre-existing DEFERRED (container-rename clawbot --> steve-tradingbot, NICHT committen):

M .env.example Dockerfile docker-compose.yml entrypoint.sh
M config/openclaw.json setup.sh generate_report.py

18 . Tests gelaufen

Waehrend HR-6 Drill: keine separate Test-Suite-Runs (Drill war live, verify via DB/log/file).

Post-Commit a139328 (Hot-Reload + Layer A+B-light):

gui: 407 tests 1201 assertions 0 failures
bot: 95 tests 0 failures 0 errors (87 RECON + 8 neue F8 unit-tests)
TOTAL: 502 Tests gruen

Post-Commit 5cc7022 (Naming Daily Report Footer):

gui: 407 tests 1201 assertions 0 failures
bot: 95 tests 0 failures 0 errors
TOTAL: 502 Tests gruen (keine Regression)

19 . Commit/Memory/Docs Status

HR-6 Closure-Commit: kein HR-6-spezifischer Code-Commit
(HR-6 war Live-Drill, kein Code-Touch)
Memory-Pin HR-6: mh_baseline_hot_reload_hr6_status.md
(12 Sektionen, vollstaendig)
Memory-Pin Session-Pause: MEMORY.md Top-Entry vorhanden
Plan-Doc Phase 2: uncommitted (working-tree)
Architektur-Review HR-6-Option-B: uncommitted (working-tree)
10_backlog F-Findings (N-UI-8 + F-TTL Pins): uncommitted (working-tree)

Empfehlung: 1x Doc-Commit "docs(phase-2): plan-review + idempotency-review + N-UI-8 + F-TTL pins" als sauberer Uebergabe-Punkt vor Phase 2A Start.

20 . Empfehlung naechster Schritt

PRI0 1 (jetzt, 3 min): Doc-Commit der 3 uncommitted Plan-/Review-Docs + 10_backlog-Edits in 1 commit
"docs(phase-2): plan-review + idempotency-review + N-UI-8 + F-TTL pins"

PRI0 2 (optional, 5 min): F-HR6-3 (externer Container-Restart 06:42 UTC) als kurzer Memory-Mini-Pin dokumentieren
(analog bot_restart_20260509_status.md)

PRI0 3 (separate Session): Phase 2A AC-1..AC-4 mit fresh-mind
(F-TTL + F11 + F12-mock + F7-PHP-Test-Vector-Setup)
Aufwand ~3.5h, 0x Bot-Restart, alle Tests/GUI-only

Spezial-Verifikationen (User-Request)

Idempotency-Verhalten

funktional bestaetigt; cmd 7 eternal-hash blockt; Option-B fuehrte zu neuem idem-key b785414c. ABER: Architektur-Smell (Mainnet-gefaehrlich, in Architektur-Review §11.1 als M-3 CRITICAL klassifiziert)

canonical_hash

Python+PHP compute identisch fuer HR-6-JSON (d1c4487e). ABER: F7 PHP/Python Drift bleibt fuer andere Inputs (Mainnet-Vorbedingung, gepinnt Phase 2B-4)

audit_event-Vollstaendigkeit

PHP-Side OK (requested + drill.HR-6.success). Worker-Side Events fehlen (F6, Mainnet-Vorbedingung, gepinnt Phase 2B-2/3)

Worker-Environment

BOT_ENVIRONMENT=testnet via docker exec env-var beide Worker --once Runs

Hot-Reload-Live-Wirksamkeit

2x Live-Beweis (apply + clear) + Telegram-Notification + Stage-1-Filter symmetrisch

Universe-Cache-Invalidation

trigger=baseline_mtime_drift in 2 Richtungen sichtbar (0 -> 420 -> 0 baseline_frozen)

Operator-facing Naming

Layer A+B-light durchgehend TESTNET LIVE + commit 5cc7022 Daily-Report-Footer-Fix

Restzustand nach Cleanup

baseline absent + nginx vhost closed + .bak-files retained (HR-6 + RECON-2.4-A.1 historic)

Boundaries-Bestaetigung

OK	kein Mainnet	BINANCE_TESTNET=true durchgehend
OK	kein Bot-Restart waehrend HR-6	PID 2027796 unveraendert 05:10-05:48 UTC
WARN	EXTERNER Restart POST-HR-6	06:42 UTC, NICHT HR-6-bezogen, ExitCode=0
OK	kein managed transfer	managed_state.json absent durchgehend
OK	kein synthetic entry	keine state-mutation ausser baseline lifecycle
OK	kein runtime_config-touch	runtime_config.json absent durchgehend
OK	baseline_holdings.json absent	final
OK	nginx temp-vhost geschlossen	HTTP=000 verified
OK	Backup vorhanden	/srv/shares/backups/hr_6_drill_pre/
OK	Git-Stand dokumentiert	master HEAD 5cc7022
OK	Memory-Stand dokumentiert	mh_baseline_hot_reload_hr6_status.md + hr_6_idempotency_review_2026-05-11.md

Cross-Reference (Memory + Doc-Pfade)

HR-6 Closure-Memory:	mh_baseline_hot_reload_hr6_status.md	(12 Sektionen)
Architektur-Review:	hr_6_idempotency_review_2026-05-11.md	(25 Sektionen)
Phase-2 Plan-Doc:	phase_2_audit_completion_review_2026-05-11.md	
Phase-2/3 Master-Plan:	phase_2_3_master_plan_2026-05-11.md	
Naming-Cleanup Status:	mh_naming_cleanup_layer_ab_status.md	
Hot-Reload HR-1..5 Status:	mh_baseline_hot_reload_status.md	
Container-Rename DEFERRED:	container_rename_pending.md	
Backlog-Master:	docs/roadmap/recon_managed_holdings/10_backlog_future_extensions.md	

DB-Audit-Trail (immutable):

audit_events.id 11-22 (RECON-2.4-A.1 + HR-6 vollstaendige Lifecycle)
commands.id 7+9+10 (apply succeeded + apply succeeded + clear succeeded)

Backup-Locations:

/srv/shares/backups/recon_2_3_deploy_pre/
/srv/shares/backups/recon_2_4_pre/
/srv/shares/backups/mh_hot_reload_pre/
/srv/shares/backups/hr_6_drill_pre/ <-- aktiv fuer HR-6

nginx-Artefakte (retained, inactive):

/etc/nginx/sites-available/recon24-gui-temp
/etc/nginx/sites-available/hr6-gui-temp
/var/log/nginx/recon24-gui-temp.access.log (551 lines)
/var/log/nginx/hr6-gui-temp.access.log (97 lines)
/var/log/nginx/recon24-rollback.log (2 closures logged)

Schlussbemerkung

HR-6 Mini-E2E-Hot-Reload-Drill hat den primaeren Test-Auftrag erfuehlt: bidirectional Hot-Reload ohne Bot-Restart live bewiesen, F8/F9/F10 operationally validated, Lifecycle symmetrisch. Die drei Findings (F-HR6-1, F-HR6-2, F-HR6-3) sind alle non-blocking und durabel in Backlog gepinnt.

HR-6 Mini-E2E-Hot-Reload-Drill - Closure Review

Phase 1 MH-BASELINE-HOT-RELOAD ist als abgeschlossen markiert. Die naechste sinnvolle Mini-Phase ist MH-RECON-AUDIT-COMPLETION (Phase 2A) mit den 5 verbleibenden F-Findings als Roadmap. KEINE Code-Aktivitaet in dieser Session - alles dokumentiert und gepinnt.

Generiert: 2026-05-11 08:17 UTC - Bot stable Host-PID 2848139 - master HEAD 5cc7022