

RBC – Watchdog (Producers ran today?) v1.1

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Design Framework: DAI + RBC Framework v5.85 (October 2025)

Change Reference: CR015 – Watchdog Scope Realignment (+ Notify Enhancement)

1. Functional Overview

Nightly watchdog at 23:59 verifies last-period keys for PV Daily, Evening Bias (16–22), and Demand Daily. If any producer missed today's stamp, it logs, notifies the Pixel 9 Pro, and posts a persistent alert. If all domains stamped, it logs 'all OK'. Behaviour unchanged except for updated helper mapping and Pixel 9 Pro notification addition.

2. Entity Map

Entity ID / Var	Purpose	Direction
input_text.rbc_last_period_pv	PV Daily producer stamp (YYYY-MM-DD)	Read
input_text.rbc_last_period_evening_demand	Evening Bias (16–22) stamp	Read
input_text.rbc_last_period_demand_daily	Demand Daily stamp	Read
notify.mobile_app_pixel9pro	Pixel 9 Pro notification	Send
persistent_notification.create	Persistent notification channel	Send

3. Trigger Matrix

Trigger ID	Condition	Purpose
t_2359	Time = "23:59:00"	Perform end-of-day verification

4. Logic Flow

1. Compute today_key = now().date().
2. Read lp_pv, lp_evening, lp_dday from helpers.
3. Compare each with today_key to build failed_list.
4. If any failed: logbook.log + notify.mobile_app_pixel9pro + persistent_notification.create.

5. Else: logbook.log → 'All producers stamped today'.

5. Guards and Safety

- No inverter writes; read and notify only.
- End-of-day timing ensures all producers have completed.
- mode: single prevents overlap.
- Visual-Editor-safe; audit trail retained via logbook entries.

6. Scheduling

Runs nightly at 23:59 after all producers complete.

7. Acceptance Tests

Test ID	Scenario	Expected Result
T1	All stamped	OK log only; no notifications.
T2	One missed	Alerts via Pixel 9 Pro and persistent notification.
T3	Multiple missed	Alert lists multiple; both notifications sent.
T4	Invalid data	Alert safely raised; no crash.

8. Governance

v1.1 – CR015 Param-Only: replaces retired Demand 08–16 with Evening Bias (16–22); adds Pixel 9 Pro alert.

9. Compliance Checklist

- Entity ↔ ID alignment verified.
- Trigger includes ID and Visual-Editor-safe structure.
- No inverter writes; Master-only rule unaffected.
- Notification to Pixel 9 Pro confirmed.

10. Change History

Version	Date	Summary
v1.1	2025-11-01	CR015 Param-Only: scope realignment + notification

path

v1.0

2025-10-31

Initial release with PV,
Demand 08–16, Demand
Daily checks