TVEMC Results Strip — Operational Logic (Jan 2026)

This document describes the **current, stabilized operational logic** of the Results Strip cards and Open Lists used during live race operations.
It reflects the validated build following CCAS1 reconciliation and DNS/DNF latch stabilization.

Overview

The Results Strip provides a **live operational snapshot** of runner flow for the selected aid station (including AUTO stations).
It is designed for **situational awareness and arrival reconciliation**, not historical reporting.

All counts and lists update automatically as new **IN** records are submitted.

Card A — Event Status (DB)

Event-wide runner status sourced from the database and roster.

- **Entrants (DB):** Total runners imported for the event.

- **DNS:** Runners marked *Did Not Start* (Open List).

- **DNF:** Runners marked *Did Not Finish*, anywhere on course (Open List).

- **Finished:** Runners with a FINISH record (Open List).

- **On Course:**
  ```
  Entrants – DNS – DNF – Finished
  ```

Operational note:
DNS and DNF runners are removed from all arrival expectations immediately.

Card B — Seen at This Station

Tracks runners who have **physically checked in** at the selected station or AUTO group.

- **Seen Here:** Count of runners recorded **IN** at this station or AUTO group.

- **Total Expected (DB):** Event-wide expected count, adjusted for DNS.

- **Not Seen:**
  ```
  Expected – Seen Here
  ```
  (Open List).

- **Last 10 Seen Here:** Most recent IN records at this station/AUTO (Open List).

Card C — Expected From Previous (Arrival Watch)

Primary arrival reconciliation tool.

Standard Stations

- Displays runners whose **next expected station** (based on their distance path) is the selected station.

- A runner appears when:

  - Their **last recorded station precedes** the selected station on their distance path.

  - They are **not DNS, DNF, or Finished**.

CCAS1 — Corral Canyon #1 (AS1) Special Logic

For **Corral Canyon Pass-1**, Card C uses **roster-based reconciliation**, not path-based logic.

Expected runners are calculated as:

Roster − Seen at AS1 − DNS − DNF − Finished

All runners are displayed as:

- **Last Station:** START

- **Next Station:** (arriving here)

This ensures CCAS1 functions as a **start-line reconciliation checkpoint**, even when no prior station records exist.

Displayed Columns

- Last Station

- Last Seen Time

- Next Station

- Distance

(All rows are accessible via Open List.)

Card D — Finish Status

Tracks race completion state.

- **Finished:** Total runners finished (Open List).

- **Not Finished:**
  `Entrants − DNS − Finished` (Open List).

AUTO Stations

AUTO stations aggregate multiple physical aid stations into a single operational view.

- **CORRAL_AUTO:** Corral Canyon #1, #2, #3

- **KANAN_AUTO:** Kanan Road #1 and #2

- **ZUMA_AUTO:** Zuma Edison Ridge #1 and #2

AUTO groups:

- Aggregate **IN** records across member stations.

- Aggregate **arrival expectations** across member stations.

- Use physical station codes internally while presenting unified views to operators.

Open List Options

- **DNS / DNF / Finished / Not Finished:**
  Event-wide status lists.

- **Last 10 Seen Here:**
  Recent INs at the selected station/AUTO.

- **Expected From Previous:**
  Primary arrival watch list for the selected station.

- **Not Seen Yet (Practical):**
  Mirrors *Expected From Previous*; shows runners on course who should arrive next but have not yet been seen.

DNS / DNF Behavior (Important)

- DNS and DNF are **latched states**.

- Once a runner is marked DNS or DNF:

    ○ They are removed from all arrival expectations.

    ○ Later IN records **do not clear** the status automatically.

- Clearing DNS/DNF is an **HQ / Net Control action only**.

This prevents accidental re-activation of withdrawn runners.

Station Naming & Display

- Internally, station codes are normalized (e.g., `T30K2` → `AS2`).

- Open Lists always display **human-readable station names**.

- Operators never see internal codes.

Race-Day Operational Notes

- Cards update automatically as new IN records are submitted.

- **Expected From Previous** is the **primary operational arrival list**.

- CCAS1 should be used as a **start-line reconciliation checkpoint**.

- DNS/DNF management should be done via dedicated controls.

- DNS/DNF runners do **not** appear in Not Seen or Expected lists.

Design Intent

The Results Strip prioritizes **operational clarity over theoretical path completeness**.

When conditions are ambiguous or data is incomplete, counts and lists favor **conservative reconciliation** — identifying **who should be here but isn't** — rather than optimistic assumptions about runner movement.

This approach is intentional and supports:

- Early detection of missing or delayed runners

- Clear reconciliation at high-risk checkpoints (e.g., CCAS1)

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- Reliable situational awareness for Aid Stations, Net Control, and HQ

The system is designed to answer the operational question that matters most on race day:

"Who are we still expecting, and where should our attention be focused right now?"