

Architect Handoff Notes

Date: 2025-12-20 **From:** Outgoing Architect **To:** Incoming Architect

1. The "Hot" Context (Read This First)

We are currently in a broken state. A recent refactoring to standardize chart titles (Phase 1.5) accidentally removed a variable (`is_single_band`) that was still required for filename generation.

- **Symptom:** `plot_qso_rate.py` and 3 other reports crash with `NameError`.
- **Result:** No files are generated. The Web Dashboard returns **404 Not Found** because it links to files that don't exist.

2. Immediate Action Items

Your **first** action must be to execute the **Hotfix** defined in the previous session (or re-generate it).

1. Apply Hotfix:

- Update `contest_tools/reports/_report_utils.py` to add `build_filename()`.
- Patch `plot_qso_rate.py`, `plot_point_rate.py`, `plot_cumulative_difference.py`, and `plot_comparative_band_activity.py`.
- *Why:* This fixes the crash and ensures files land on disk with consistent names.

2. Verify & Proceed to Phase 2 (Manifest):

- Once the crash is fixed, you must implement the **Session Manifest**.
- The Dashboard's current logic ("guessing" filenames based on inputs) is flawed. If 1 of 3 logs is bad, the generator correctly filters it out (2 logs), but the View looks for a 3-log filename -> 404.
- **Solution:** The Generator must produce a `manifest.json` of *created* files. The View must read this manifest.

3. "Watch Out" For...

- **Strict Naming:** We are moving toward strict, centralized naming (`_report_utils.build_filename`). Do not allow ad-hoc string formatting in individual reports.
- **Partial Failures:** The system must handle "2 Good Logs + 1 Bad Log" gracefully. Do not re-introduce `if any(log.empty): return`. The generator must filter valid logs and proceed.

- **Matplotlib:** We are actively purging Matplotlib. Do not accept new code using it. Push for Plotly.

4. Current File State

The `project_bundle.txt` you will receive contains the **Regressed Code** (Phase 1.5 Partial). It does **NOT** contain the Hotfix. You must apply the fix immediately upon resumption.