

# ImplementationPlan.md

Version: 1.0.0 Target: 0.115.0-Beta

## 1. File Identification

- **File:** web\_app/analyzer/templates/analyzer/qso\_dashboard.html
- **Baseline Version:** 0.114.0-Beta

**2. Surgical Changes** The user reported that the "QSO Rate Comparison Plot" is not rendering correctly in the dashboard; the data table is truncated and overlaps the legend.

- **Root Cause Analysis:** The `iframe` containers for the "Global Context" and "Cumulative Points" charts are hardcoded to `height: 500px` in the HTML template. However, the reports generated by `plot_qso_rate.py` and `plot_point_rate.py` are complex multi-subplot figures (Chart + Data Table) designed for a vertical canvas of approximately 900px. Constraining them to 500px forces the Plotly engine to squash the subplots, causing the overlap and truncation.
- **Action:** Increase the CSS height of the container divs for both the "Global Context" chart and the "Cumulative Points" chart from 500px to 900px.

## 3. Surgical Change Verification (diff) --- BEGIN DIFF ---

```
web_app/analyzer/templates/analyzer/qso_dashboard.html +++ web_app/analyzer/templates/analyzer/qso_dashboard.html  
@@ -19,3 +19,3 @@
```

- `<div class="card-body p-0" style="height: 500px;">`
- `<div class="card-body p-0" style="height: 900px;">`  
`<iframe src="{% url 'view_report' session_id global_qso_rate_file %}?chart=rate">`

```
@@ -88,3 +88,3 @@
```

- `<div class="card-body p-0" style="height: 500px;">`
- `<div class="card-body p-0" style="height: 900px;">`  
`<iframe src="{% url 'view_report' session_id global_point_rate_file %}?chart=point">`

--- END DIFF ---

**3.a. Ground Truth Declaration** I declare that the diff above is generated against the definitive baseline **Version 0.114.0-Beta** of `web_app/analyzer/templates/analyzer/qso_dashboard.html`.

## 4. Affected Modules Checklist

- `web_app/analyzer/templates/analyzer/qso_dashboard.html` (Primary Fix)
- **Systemic Check:** Reviewed `plot_qso_rate.py` and `plot_point_rate.py`. Both define a preferred height of 900px (or 1200px for PNGs). The

HTML template change aligns the container with the generator's design intent.

## 5. Pre-Flight Check

- **Inputs:** `web_app/analyzer/templates/analyzer/qso_dashboard.html`
- **Expected Outcome:** The "Global Context" and "Cumulative Points" charts on the QSO Dashboard will render with a height of 900 pixels, providing sufficient vertical space for the data table and legend to appear without overlap or truncation.
- **Mental Walkthrough:**
  1. User loads `qso_dashboard`.
  2. Browser renders the "Global Context" card.
  3. The `div` containing the `iframe` now claims 900px of height.
  4. The Plotly chart inside the `iframe` (set to `autosize=True`) expands to fill the 900px.
  5. The internal layout of the chart (70% Graph, 30% Table) now has enough absolute pixels to render the table rows and headers clearly.
- **Backward Compatibility:** This change only affects the visual presentation layer (CSS height). It does not alter data processing or URL routing.

**6. Post-Generation Verification** I confirm this plan contains all required sections, including the Metadata Header, Ground Truth Declaration, and Surgical diff. **Next Action:** I will issue the standardized prompt for plan approval.