

Telemetry Viewer

Browser-based interactive viewer for RTE JSONL telemetry logs.

Document ID	OV-TOOLS-TELEMETRY-VIEWER
Version	0.1
Date	2026-08-08
Status	draft
Applies to	openvvvf-control-module, chassis-size-1, chassis-size-2, chassis-size-3
Product line	openvvvf
Normative references	OV-TOOLS-INDEX

1. Telemetry Viewer

The Telemetry Viewer is a browser-based tool for inspecting RTE JSONL telemetry logs interactively. It runs entirely client-side: no data is uploaded to a server.

1.1. Features

- Load RTE `.jsonl` telemetry files directly in the browser.
- Select and plot any signal in the log.
- Pan, zoom, and inspect data points interactively with Plotly.
- Quickly check signal lists, ranges, and sample counts.

1.2. Using the viewer

1. Open the OpenVVVF Telemetry Viewer.
2. Click **Load JSONL** and select an RTE telemetry log.
3. Choose the signals you want to plot from the sidebar.
4. Use the Plotly toolbar to zoom, pan, or export the figure.

1.2.1. Right-click menu

Right-click anywhere on the plot to open a context menu for adding markers, annotations, zooming to a time, or fitting the X axis.

1.2.2. Command markers

Click a row in the **Commands** panel to toggle a vertical marker at that command time. Click the same row again to remove the marker.

1.2.3. Linked files

You can link directly to a telemetry file so the viewer opens and loads it automatically. Add the `?file=` parameter with a path relative to the viewer, and use the existing `#s=` hash to pre-select signals.

Example:

```
telemetry-viewer.html?file=../../Safety-and-Compliance/Testing/Hardware/Induction-Motor-Calibration/induction-cal.jsonl#s=cg_iu_a:left
```

Open induction calibration log with `cg_iu_a` plotted

1.3. Data privacy

The viewer parses files locally in your browser. Telemetry data never leaves your machine.

1.4. Source

The viewer is a single self-contained HTML file. It can be copied to a workstation for offline use. Plotly.js is loaded from a CDN by default; for fully-offline operation, download Plotly and update the `<script>` tag in the HTML.