MDS Generator – User Guide

Step by step: from sign-in to checking the output MDS

1. Sign in & Upload

1. Click **Sign in with Google** and use your **@protovec.com** account. The same popup also gives the app access to your Drive.
2. In each slot, click **Browse Google Drive** and pick the file:
   - **01 Scope Sheet** – which equipment the plant has, and how many of each.
   - **02 IO List** – the wired signals.
   - **03 TSC / Tank Lineup** – the process stations, in order.
   - **04 Reference MDS** – this project's own MDS if one exists, otherwise an MDS from the same PLC family (e.g. FX5U 2W or Q-Series). All tags and PLC addresses are copied from this file. Without it, the output is marked **not verified**.
3. Under **Tank Lineup arrangement**, draw each aisle in the direction it runs. A U-shape drawn in one stroke counts as two aisles. Click **Start new line** only for an aisle that isn't connected to the last one.
4. Click **Continue** → **Review Input**.

2. Review & Edit

1. Type the **Plant / Project Name**. It becomes the output file name.
2. Check the scope lines and counts, and the **Driver details**. Fix anything wrong, or use **+ Add scope line** for anything missing.
3. Click **Generate MDS** →.

3. Generated MDS (check the output here)

1. Fill in **Wagon Range**: one row per wagon, all required.
2. Fill in **Station Range**. Line 1 is required. Line 2 is required only if you drew a second aisle.
3. Check the **Equipment** table (match, instances, type).
4. Read the **Unmatched** box and the **Generation Report**. They list excluded tags with the reason, and any wording the app didn't recognise.
5. Go through the tabs: **Project Details, Digital Tags, Analog Tags, Alarms, Data Log, Events**. Check the counts, the descriptions, and that the addresses match the Reference MDS. A blank address means the Reference MDS had no value for that tag, so fill it in by hand.
6. Click **Continue** → **Download**.

4. Download

1. Check the Digital, Analog and Alarm counts.
2. Click **Upload to Google Drive**. The MDS is saved to your Drive as a Google Sheet.
3. Open that Sheet and spot-check the sheets, including Tank lineup and Dip Times.