

Contest Log Analyzer - Installation Guide

Version: 0.90.13-Beta Date: 2025-10-06

--- Revision History ---

[0.90.13-Beta] - 2025-10-06

Fixed

- Added missing requests and beautifulsoup4 libraries to the conda

installation command in Step 3. These are required by the cty_manager

for web scraping.

[0.62.0-Beta] - 2025-09-08

Changed

- Overhauled directory and environment variable setup to use a separate

input (CONTEST_INPUT_DIR) and output (CONTEST_REPORTS_DIR) path.

[0.56.29-Beta] - 2025-09-01

Fixed

- Added the missing prettytable and tabulate libraries to the

conda installation command.

- Added the missing iar_u_officials.dat file to the list of

required data files.

[0.47.4-Beta] - 2025-08-28

Changed

- Added the mandatory imageio-ffmpeg package to the conda install

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command to ensure the video animation backend is found correctly.

[0.47.3-Beta] - 2025-08-25

Added

- **Git:** For cloning the source code repository.
 - **Miniforge:** This is the recommended way to install Python and manage the project's libraries in an isolated environment. Miniforge is a minimal installer for the Conda package manager.
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2. Installation Steps

Step 1: Clone the Repository

Open a terminal or command prompt, navigate to the directory where you want to store the project, and clone the remote Git repository.

```
git clone [https://github.com/user/Contest-Log-Analyzer.git] (https://github.com/user/Contest-Log-Analyzer.git)
cd Contest-Log-Analyzer
```

This will create the project directory (**Contest-Log-Analyzer**) on your local machine.

Step 2: Create and Activate the Conda Environment

It is a best practice to create an isolated environment for the project's dependencies. This prevents conflicts with other Python projects on your system.

```
# Create an environment named "cla" with Python 3.11
conda create --name cla python=3.11
```

```
# Activate the new environment
conda activate cla
```

Step 3: Install Libraries with Conda

With the **cla** environment active, use the following single command to install all required libraries from the recommended **conda-forge** channel. This includes **ffmpeg** for video creation.

```
conda install -c conda-forge pandas numpy matplotlib seaborn imageio imageio-ffmpeg ffmpeg
```

Step 4: Set Up the Input and Output Directories

The application requires separate directories for its input files (logs, data) and its output files (reports). This separation is critical to prevent file-locking issues with cloud sync services.

1. Create the Input Directory: This folder will contain your log files and required data files. It can be located anywhere, including inside a cloud-synced folder like OneDrive. Example: **C:\Users\YourUser\OneDrive\Desktop\CLA_Inputs**
Inside this folder, you must create the following subdirectories:

```
CLA_Inputs/  
|  
+-- data/  
|  
+-- Logs/
```

2. Create the Output Directory: This folder is where the analyzer will save all generated reports. **This directory must be on a local, non-synced path.** A recommended location is in your user profile directory. Example: %USERPROFILE%\HamRadio\CLA (which translates to C:\Users\YourUser\HamRadio\CLA)

Step 5: Set the Environment Variables

You must set two system environment variables that point to the directories you created in the previous step.

- **CONTEST_INPUT_DIR:** Points to your main input directory (e.g., C:\Users\YourUser\OneDrive\Desktop\CLA_Inputs).
- **CONTEST_REPORTS_DIR:** Points to your main output directory (e.g., C:\Users\YourUser\HamRadio\CLA). **For Windows:**
 1. Open the Start Menu and search for "Edit the system environment variables."
 2. In the System Properties window, click the "Environment Variables..." button.
 3. In the "User variables" section, click "New..." and create both variables.
 4. Click OK to close all windows. You must **restart** your terminal or command prompt for the changes to take effect.

Step 6: Obtain and Place Data Files

The analyzer relies on several external data files. Download the following files and place them inside the **data/** subdirectory within your **Input Directory** (CONTEST_INPUT_DIR).

- **cty.dat:** Required for all contests.
- **arrl_10_mults.dat:** Required for the ARRL 10 Meter contest.
- **ARRLDXmults.dat:** Required for the ARRL DX contest.
- **NAQPMults.dat:** Required for NAQP and CQ 160-Meter contests.
- **SweepstakesSections.dat:** Required for ARRL Sweepstakes and ARRL Field Day.
- **band_allocations.dat:** Required for all contests to perform frequency validation.
- **iaru_officials.dat:** Required for the IARU HF World Championship contest.

3. Running the Analyzer

To verify the installation, run the program from the project's source code directory. Ensure your `cla` conda environment is active.

```
# Make sure your conda environment is active
conda activate cla
```

```
# Run the script from the main project directory, providing a relative path
# to a log file inside your CONTEST_INPUT_DIR
(cla) C:\...\Analyzer>python main_cli.py --report score_report 2025/NAQP-CW/aug/k3aj.log
```

If the installation is successful, you will see an output message indicating that the report was saved, and you will find a new `.txt` file in a `reports` subdirectory inside your `CONTEST_REPORTS_DIR`.