

KOMLD HISTORY VIEWER FOR WSJT-X

User's Guide

Consolidated Callsign and QSO History Search Utility

For amateur radio operators

Developed by KOMLD • Version 1.0 • August 2026

PURPOSE: KOMLD History Viewer for WSJT-X consolidates supported WSJT-X history files into ALL_HISTORY.TXT, removes duplicate lines, sorts the records by date and time, and searches for records containing both a requested callsign and the station owner's callsign. Searches may optionally be limited to one UTC QSO date.

Operational scope

Automatic consolidation • full-line deduplication • chronological sorting • exact callsign matching • optional UTC-date restriction

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READING PATH: New users should complete Section 1, review the main-window tour in Section 2, and perform the procedure in Section 3. Keep Appendix A nearby as the routine operating checklist.

1. First-Time Setup

1.1 What the program searches

WSJT-X writes operating activity to one or more text files in its history directory. The viewer examines every supported source file, builds a consolidated ALL_HISTORY.TXT, and searches that master file for lines containing both the requested callsign and the OwnerCallsign stored in Config.ini.

Supported source name	Typical contents
ALL.TXT	The conventional continuing WSJT-X history file.

Supported source name	Typical contents
YYYY-ALL.TXT	A year-specific history file, such as 2026-ALL.TXT.
YYYY-MM-ALL.TXT	A month-specific history file, such as 2026-08-ALL.TXT.

SOURCE SAFETY: The source files are opened for reading and are never modified. ALL_HISTORY.TXT is the viewer's generated master file.

1.2 Locate the history directory

For a normal Windows WSJT-X installation, the program begins with the WSJT-X default directory:

C:\Users\<Windows-user>\AppData\Local\WSJT-X

The actual Windows account name replaces <Windows-user>. The path is constructed from the current Windows user's Local Application Data folder; it is not hard-coded to a particular username. Use Browse if the active WSJT-X history directory is elsewhere.

1.3 Configure the station owner's callsign

The first time the viewer starts, it creates Config.ini beside the program executable if the file is not already present. The file contains OwnerCallsign and HistoryDirectory settings.

1. If OwnerCallsign is blank or invalid, acknowledge the startup error.
2. Choose Yes when asked whether to open the applicable Config.ini in Notepad.
3. Enter the station owner's callsign immediately after the equals sign, for example OwnerCallsign=KOMLD.
4. Save the file and close Notepad.
5. The viewer rereads Config.ini, updates the masthead and instructions, and resumes startup.

VALIDATION RULE: OwnerCallsign must be 3–20 characters, contain at least one letter and one digit, and contain only letters, digits, and optional slash-separated portable identifiers. If the corrected value is still invalid, the prompt is repeated. Choosing No closes the viewer.

1.4 First startup check

1. Confirm the History directory field points to the intended WSJT-X data directory.
2. Confirm the instruction line ends with the correct owner callsign.
3. Wait while ALL_HISTORY.TXT is built; search controls remain unavailable during this step.
4. Confirm the status reports History ready and displays consolidation statistics.
5. Enter a callsign known to appear in the consolidated history and click Search or press Enter.

2. A Tour of the Main Window

The main window contains the KOMLD masthead, History Source controls, the Matching History Records display, and the status area. The owner callsign read from Config.ini appears at the upper right.

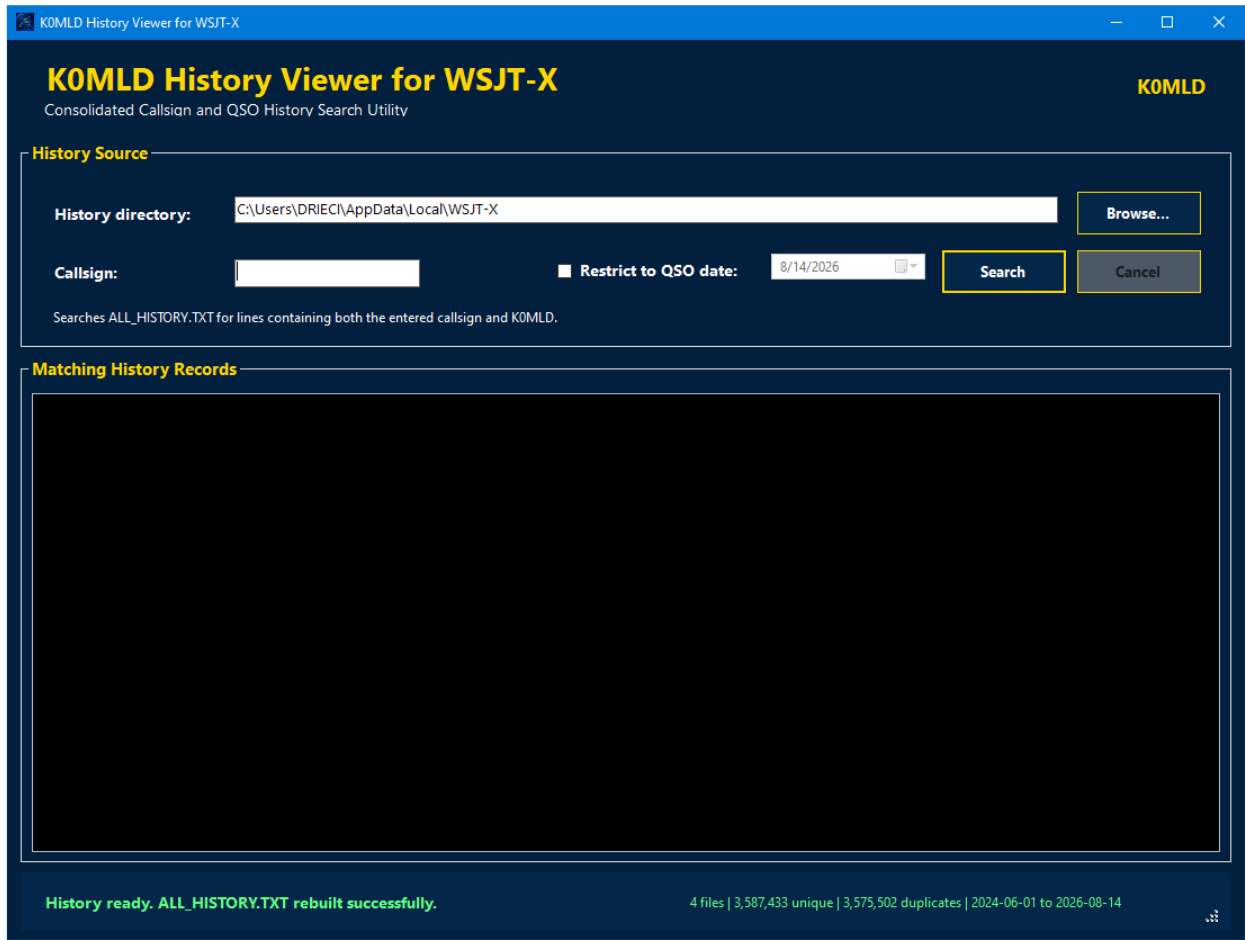


Figure 1. KOMLD History Viewer for WSJT-X main-window layout.

EXAMPLE VALUES: The callsigns, date, path, and history records in Figure 1 illustrate control placement only. Use the values appropriate to the operator's own station and search.

Control or area	Purpose
History directory	Shows the retained directory containing the supported WSJT-X history source files.
Browse	Selects another history directory, saves it in Config.ini, and rebuilds ALL_HISTORY.TXT before searches are enabled.
Callsign	Accepts the other station's callsign. Letters are automatically converted to uppercase.

Control or area	Purpose
Restrict to QSO date	Enables an optional single-date restriction.
Date selector	Selects the requested QSO date. It is available only while the date restriction is checked.
Search	Rebuilds ALL_HISTORY.TXT and then searches it. Pressing Enter performs the same action.
Cancel	Requests cancellation of a search already in progress.
Matching History Records	Displays matching original lines with a reformatted timestamp and color-coded Rx/Tx activity.
Status area	Distinguishes consolidation from searching and reports source files, records, duplicates, unique records, date range, progress, and match count.

3. Everyday Operating Procedure

3.1 Search all dates

1. Confirm the History directory field identifies the correct WSJT-X history directory.
2. Enter the other station's callsign in Callsign.
3. Leave Restrict to QSO date unchecked.
4. Click Search or press Enter.
5. Watch Updating consolidated history while ALL_HISTORY.TXT is rebuilt, followed by Searching consolidated history.
6. Review the match count at the lower right and the matching lines in the results display.

EXACT CALLSIGN RULE: The viewer searches for the complete callsign as a distinct token. A search for W1AW does not intentionally match W1AW/4, W1AW1, or another longer callsign containing those characters.

3.2 Start another search

Enter another callsign or change the date selection, then start Search again. ALL_HISTORY.TXT is rebuilt on every search so newly appended WSJT-X history is included. The previous result display is cleared before the search begins.

3.3 Owner callsign is not a search callsign

The Callsign field is for the other station. If it matches OwnerCallsign, the viewer displays an error. After the message is acknowledged, the Callsign field is cleared and keyboard focus returns to it.

3.4 Select a different history directory

1. Click Browse.
2. Select the directory containing the required WSJT-X history files.
3. The selected directory is saved as HistoryDirectory in Config.ini.
4. Wait for ALL_HISTORY.TXT to be rebuilt and the search controls to become available.
5. Enter a callsign and begin the search normally.

DIRECTORY IDENTITY: Browse selects a directory, not an individual file. The viewing program decides which supported history files in that directory are appropriate sources.

4. Understanding Search Results

4.1 What constitutes a match

A line is displayed only when it contains both the requested callsign and the OwnerCallsign read from Config.ini. Matching is not case-sensitive. Callsign boundaries prevent ordinary partial-call matches.

Result color	Meaning
Green	The original line contains Rx as a separate field and is treated as a received-history line.
Red	The original line contains Tx as a separate field and is treated as a transmitted-history line.
White	The line matches both callsigns but is not recognized as an Rx or Tx line.

4.2 Timestamp display

When a matching line begins with a valid WSJT-X timestamp in YYYYMMDD_HHMMSS form, the viewer displays that timestamp as MM/DD/YYYY HH:MM:SS. The remainder of the original history line is preserved.

UTC REMAINS UTC: The timestamp is reformatted for readability; it is not converted from UTC to local time. Interpret the displayed QSO time as the same time basis recorded by WSJT-X.

4.3 Reading the status area

Status	Meaning
Ready	No search is currently running.
Starting search...	The requested search has been submitted.
Examined n lines...	A large file is still being read; matches already found may be visible.
Search complete	The entire consolidated ALL_HISTORY.TXT was examined.
Cancellation requested...	The Cancel request has been sent; the worker will stop at the next cancellation check.
Search cancelled	The search ended before the entire file was examined.
Search failed	The file could not be read or another search error occurred; a message box gives the reported reason.

4.4 No matches

If the complete search finds no qualifying lines, the result display shows No matching history lines were found and the match count remains zero. Check callsign spelling, OwnerCallsign, the retained history directory, and any active date restriction.

5. Restricting a Search to One QSO Date

Use a date restriction when a callsign appears many times in a long history file or when the operator wants to isolate one operating session.

1. Enter the desired callsign.
2. Check Restrict to QSO date.
3. Select the desired date in the enabled date field.
4. Click Search or press Enter.
5. Confirm the results belong to the intended UTC QSO date.

QSO DATE IS UTC: WSJT-X history timestamps normally use UTC. Select the UTC calendar date represented in the consolidated record, which may differ from the local date around midnight UTC.

The viewer recognizes common date text forms used in or associated with history records: YYMMDD, YYYYMMDD, YYYY-MM-DD, and YYYY/MM/DD. The complete original line must also satisfy both callsign requirements.

6. Configuration and Program Files

6.1 Config.ini reference

Config.ini is stored beside WSJTXHistoryViewer.exe. Blank lines and lines beginning with # or ; are ignored. Setting names are not case-sensitive.

Setting	Function
OwnerCallsign	Station-owner callsign that must occur in every displayed result. The value is converted to uppercase when read.
HistoryDirectory	Absolute path to the directory containing the WSJT-X history source files. Browse updates this setting.

Minimal example:

OwnerCallsign=KOMLD

HistoryDirectory=C:\Users\<Windows-user>\AppData\Local\WSJT-X

OWNER CALLSIGN CORRECTION: At startup, a missing or invalid OwnerCallsign produces an error and an offer to open the exact Config.ini in Notepad. Save and close Notepad; the viewer rereads the file and resumes without requiring a manual restart.

6.2 Program-file reference

Item	Purpose
WSJTXHistoryViewer.exe	Main Windows application.
Config.ini	Station-owner configuration. Created automatically on first startup if missing.
ALL.TXT	Conventional WSJT-X history source file.
YYYY-ALL.TXT	Supported year-specific WSJT-X history source file.
YYYY-MM-ALL.TXT	Supported month-specific WSJT-X history source file.
ALL_HISTORY.NEW	Temporary consolidated output used during an atomic rebuild.
ALL_HISTORY.TXT	Completed, sorted, duplicate-free master file searched by the viewer.

DEPLOYMENT RULE: Keep Config.ini with the deployed executable. Do not place the configuration file in the WSJT-X data folder unless the executable is also intentionally run from that folder.

6.3 Consolidation rules

- If only ALL.TXT exists, all of its records are copied into ALL_HISTORY.TXT.
- If monthly and/or yearly files exist, all records from all supported files are included.
- If ALL.TXT and monthly/yearly files coexist, every appropriate file is read; deduplication removes repeated lines.
- Duplicate identity is based on the entire original line, not merely its timestamp.
- Unique records are sorted by parsed date and time; records without a recognized timestamp retain stable source order.

ATOMIC REPLACEMENT: The viewer writes ALL_HISTORY.NEW and closes it successfully before replacing ALL_HISTORY.TXT. A failed or cancelled rebuild leaves the previous completed master intact.

7. Consolidation, Large Histories, and Cancellation

At startup, after selecting a directory, and before every search, the viewer rebuilds ALL_HISTORY.TXT on a background worker. Callsign, date, and Search controls remain unavailable until the startup or directory-change build completes.

- Updating consolidated history identifies the build phase.
- Searching consolidated history identifies the search phase.
- The status reports source files examined, source records read, duplicate records removed, unique records written, and earliest/latest record dates.
- The status reports the number of lines examined as searching advances.
- The match count increases while qualifying lines are found.
- Search controls and directory selection are disabled during active processing.
- Cancel is enabled only while background processing is running.
- A cancellation request does not erase matches already displayed.

7.1 Cancel a search

1. Click Cancel while the search is running.
2. Wait for the status to change from Cancellation requested to Search cancelled.
3. Review any matches already displayed, or correct the search criteria and begin again.

CANCELLATION SAFETY: A cancelled consolidation does not replace the previous ALL_HISTORY.TXT. After a cancelled search, displayed lines represent only the portion examined and are not a complete result set.

8. Troubleshooting

Symptom	Check
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Symptom	Check
Owner Callsign Required	Choose Yes to open the displayed Config.ini in Notepad, correct OwnerCallsign, save, and close Notepad. The viewer then rereads the file.
History directory is invalid	Use Browse to select the directory containing the supported WSJT-X history files.
No supported source files	Confirm the directory contains ALL.TXT, YYYY-ALL.TXT, or YYYY-MM-ALL.TXT.
No matching lines	Check the requested callsign, OwnerCallsign, history directory, and any active QSO-date restriction.
Owner callsign rejected as search	A station cannot be searched against itself. Acknowledge the message and enter the other station's callsign in the cleared field.
Expected portable-call records are absent	The search uses exact callsign boundaries. Search the complete callsign as it appears in the history record, including a slash suffix when appropriate.
Expected date produces no results	Select the UTC date shown in the original WSJT-X record, not necessarily the local calendar date.
Times appear shifted from local time	The viewer reformats the recorded timestamp but does not perform a UTC-to-local conversion.
Rx/Tx line has an unexpected color	Color recognition requires Rx or Tx as a separate space-delimited field in the original line.
Processing appears slow	Large source collections require consolidation, deduplication, sorting, and a sequential search. Watch the changing phase and statistics in the status bar.
Consolidation or search failed	Read the reported error and confirm access to the selected history directory. A failed rebuild should leave the previous ALL_HISTORY.TXT intact.
Config.ini could not be created or read	Confirm the program folder permits the current Windows user to create and read files.

8.1 Safe recovery sequence

1. Close KOMLD History Viewer for WSJT-X.

2. Preserve a copy of the current Config.ini before editing it.
3. Confirm OwnerCallsign contains only the station-owner callsign.
4. Confirm HistoryDirectory identifies the folder containing the supported history source files.
5. Restart the viewer and wait for History ready before performing an unrestricted search.
6. Add a UTC-date restriction only after the unrestricted search works.

Appendix A. Quick Reference

Routine search checklist

- Correct history directory selected
- Correct OwnerCallsign shown in the instruction line
- History ready reported after consolidation
- Complete requested callsign entered
- Date restriction off unless intentionally required
- UTC date selected when restriction is on
- Search allowed to complete unless partial results are acceptable
- Final match count reviewed
- Green interpreted as Rx, red as Tx, and white as other matching history

Task	Shortest path
Search all history	Confirm directory and History ready → enter callsign → leave date unchecked → Search.
Search one UTC date	Enter callsign → check date restriction → select UTC date → Search.
Use another history directory	Browse → select directory → wait for rebuild → enter callsign → Search.
Stop a long search	Cancel → wait for Search cancelled → treat displayed lines as partial.
Correct owner callsign	At the startup error choose Yes → edit Config.ini → save and close Notepad.

Appendix B. Search Rules and Data Handling

B.1 Search rules

- Every displayed line contains the requested callsign.
- Every displayed line also contains OwnerCallsign.
- Callsign comparisons are not case-sensitive.
- Callsign matches use boundaries that treat letters, digits, and slash as callsign characters.

- When enabled, the date restriction must also match one recognized date-text form.
- ALL_HISTORY.TXT is rebuilt before every search and then read sequentially unless the operator cancels.

B.2 Data handling

- Supported WSJT-X source files are opened for reading and are not modified.
- Duplicate detection compares the complete original line.
- The completed master is replaced atomically through ALL_HISTORY.NEW.
- The result display is cleared at the beginning of each new search.
- Matching lines are displayed in consolidated chronological order.
- Only a valid leading WSJT-X timestamp is reformatted; remaining line content is preserved.
- Results remain in the viewer only; this build provides no dedicated export command.

ACCEPTED BASELINE: For reliable results, configure OwnerCallsign, verify the retained history directory, wait for consolidation to complete, and treat the optional QSO date as a UTC date.

Appendix C. WSJT-X Acknowledgment

WSJT-X is copyrighted software developed by the WSJT Development Group and distributed under the GNU General Public License. KOMLD History Viewer for WSJT-X is an independently developed utility and is not affiliated with or endorsed by the WSJT Development Group.

The viewer reads history text produced by WSJT-X. It does not incorporate or modify WSJT-X source code, algorithms, protocols, or executable files.