CWSTATION QSL

de IU7IWT

User Manual

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1. Introduction

CWSTATION QSL turns your station log into a living showcase. It reads your logbook, then automatically presents every contact (QSO) one after the other: callsign, operator name, city, country, band, mode, date and time, the distance from your station and the exact position of the correspondent on an interactive world map. For every contact you can open a printable QSL card, load the picture of the QSL card you actually received, or have the program download all your received eQSL cards for you.

1.1 What you can do with the program

- Run an automatic slideshow of all the QSOs in your log, with a new contact every 10 seconds.
- See each correspondent on a map (street or satellite view) with a great-circle curve and the distance from your station.
- Browse statistics by country, band, mode and distance, and highlight on the map the contacts that match.
- Look up any callsign in the log and jump straight to its contact.
- Generate a two-sided QSL card (front with photo, back with QSO data), print it, save it as an image or view it as a rotating 3D postcard.
- Keep a collection of the real QSL cards you received, view them full screen and match them with your contacts.
- Download your received QSL cards from eQSL.cc in one operation.
- Follow the NCDXF beacons, the day/night line, world clocks and open propagation, DX cluster and PSK Reporter maps.

1.2 Requirements

- A Windows PC with Microsoft Edge WebView2 Runtime installed. If it is missing, the program tells you so at start-up and shows where to download it (it is a free Microsoft component, already present on most up-to-date Windows systems).
- An Internet connection. Map tiles, city names, photographs, flags, the country borders, the QSL image export and the eQSL download all use online services. Without Internet the program still opens and shows your contacts, but several features will be limited (see chapter 14).
- Your logbook, saved either as an Excel spreadsheet or as an ADIF log (see chapter 3).

1.3 Starting the program

Start CWSTATION QSL as any Windows program. The window opens at the centre of the screen (about 1280 x 800 pixels) and can be resized or maximised freely. At start-up the program automatically reopens the last log you used. If you have never loaded a log, the main area shows the message inviting you to use the **Load log** button.

2. The Main Window

The window is divided into three areas:

- **The top bar** contains the program title and the main buttons (load a log, eQSL SYNC, slideshow controls, LIST OF QSLs RECEIVED, search box, Fullscreen).
- **The QSO card** (left) shows the data of the contact currently displayed, with a progress bar at the bottom.
- **The map card** (right) shows the position of the correspondent and carries all the map buttons, the YOUR CALL and YOUR GRID boxes.

2.1 Buttons of the top bar

Button	What it does
Load log	Opens a window to choose your logbook (Excel or ADIF). The slideshow restarts with the new log.
eQSL SYNC	Opens the eQSL download window to fetch your received QSL cards automatically (chapter 12).
Prev / Next	Show the previous or the next contact immediately. The list is circular: after the last contact you return to the first.
Pause / Resume	Stops or restarts the automatic slideshow. While paused the button reads Resume.
LIST OF QSLs RECEIVED	Opens the list of correspondents for whom a received QSL image has been loaded (chapter 11).
Search QRZ box	Type a callsign and press Enter, or use the Search button (chapter 7).
Search + QSL	Searches the callsign and also opens its QSL CARD window, ready for loading the received QSL image.
Fullscreen	Switches the program to full-screen mode; press it again to leave. Ideal for showing the slideshow on a large monitor.

The slideshow controls, the LIST OF QSLs RECEIVED button and the search box appear only when the log contains at least one contact.

3. Loading Your Log

3.1 Supported formats

- **Excel spreadsheet** (.xlsx): the first sheet is used. The first row must contain the column names.
- **ADIF log** (.adi or .adif): the standard export of practically every logging program.

3.2 Information read from the log

Column names are not case sensitive. Several alternative names are accepted, so the logs exported by most logging programs work without changes. Only the callsign is mandatory; every other piece of information that is missing is shown as N/A.

Information	Accepted column / field names	Notes
Callsign	CALL	Mandatory. Rows without a callsign are ignored.
Grid locator	GRID or GRIDSQUARE	4 or 6 characters (for example JN61 or JN61ef). It gives the position on the map and the city. Without a valid grid the contact is shown without a position.
Name	OPERATOR NAME or NAME	Name of the correspondent.
Date	DATE or QSO_DATE	Excel dates, ISO dates (2026-11-07) and ADIF dates (20261107) are all understood.
Time	TIME or TIME_ON	Shown as HH:MM UTC. Accepted: 13:30, 13:30:15, 1330, 133015 and the Excel time fractions.
Band	BAND	For example 20m.
Mode	MODE	For example CW, SSB, FT8.
Report	RST_SENT or RST	Shown on the back of the QSL card. If missing, 59 is used.
Country	COUNTRY	Used for statistics, flags and the map.

3.3 How to load a log

1. Press **Load log** in the top bar.
2. Select your Excel or ADIF log in the window that opens (the filter shows both formats; you can also choose only Excel or only ADIF).
3. Confirm. The slideshow restarts from the first contact.

If the chosen log cannot be read, a message explains the problem and the previously loaded log stays on screen. Once a log has been loaded successfully, the program remembers it and reopens it automatically the next time you start it.

> **Note**
> If your log is open in Excel while you load it, the program can still read it. Remember, however, that only the saved version is read.

4. The QSO Slideshow

As soon as a log is loaded the slideshow starts. Every contact stays on screen for 10 seconds, then the next one is shown automatically. A thin progress bar at the bottom of the QSO card fills up to show the time left. The counter at the top of the card (for example 12 / 340) tells you which contact you are watching and how many there are.

4.1 Information shown for each contact

Field	Meaning
Callsign and name	Large callsign and the name of the operator.
Grid Square	Locator of the correspondent.
City	City found automatically from the grid locator. It shows Loading... for a moment while the program looks it up, and the city is then also added to the City List.
Date and Time	Date and UTC time of the contact.
Band / Mode	Band and mode of the contact.
Country	Country of the correspondent.
Distance	Great-circle distance from your station. It appears when YOUR GRID has been entered (chapter 5).
EXTERNAL QSL LOADED	A badge that appears when you have loaded the picture of the QSL card received from this correspondent.

4.2 Controlling the slideshow

- Use **Prev** and **Next** to move manually; the timer restarts at each change.
- Use **Pause** to hold a contact on screen as long as you wish, and **Resume** to continue.
- While a contact is still loading (photos, city), the countdown waits, so you never lose part of the 10 seconds.
- The slideshow pauses automatically when you jump to a specific contact (from a search, from the distance list or from the list of QSLs received). Press Resume to start it again.

5. Your Callsign and Your Grid

Two boxes on the map card personalise the program with your own station data. Both are saved automatically and are still there the next time you start the program.

5.1 YOUR CALL

Type your callsign (up to 12 characters; letters, numbers and the slash are accepted, and letters are converted to capitals). It is shown on the map and printed on the back of the QSL card. Press Enter or click elsewhere to confirm.

5.2 YOUR GRID

Type your Maidenhead locator, either with 4 characters (for example JN53) or 6 characters (for example JN53ab). While you type, the box turns red if the value is not a valid locator. As soon as a valid locator is accepted the program:

- draws your station on the map and a curve (the shortest path over the globe) from you to each correspondent, labelled with the distance in kilometres;
- shows the Distance of each contact in the QSO card and in the QSO details;
- fills the distance statistics (chapter 8);
- uses the curve on the full-screen QSL/map view.

Clearing the box removes your position and the distances.

6. The Map

The map follows the slideshow: for each contact it centres on the correspondent's position, showing the callsign (and, when known, city and country) on a marker. Contacts without a valid grid locator are shown without a position.

6.1 Map buttons

Button	What it does
QSL CARD	Opens the QSL card window for the current contact (chapter 10).
IMAGES	Opens a Google Images search for the city of the contact (or its country, or the callsign if the city is not known). The same browser tab is reused every time.
QRZ.COM	Opens the QRZ.com page of the current callsign, always in the same tab.
STATISTICS	Opens or closes the statistics window (chapter 8).
CITY LIST	Opens the list of cities met so far (chapter 9).
FLAGS	Shows on the map the flag markers of all contacts at once; press again to return to the current contact only.
FLAGS COLLECTION	Opens the gallery of the flags of all countries in your log (chapter 9).
BEACONS	Shows the NCDXF beacons on the map and a panel to choose their frequencies (section 6.2).
DAY/NIGHT	Draws the day/night line (grey line) over the map and keeps it updated in real time.
CONTACTED	Colours in red all the countries you have contacted. The button shows its progress while the borders are loaded.
PROPAGATION	Opens the HF propagation map on the DX View website in your browser.
DX CLUSTER	Opens the DX Heat cluster page in your browser.
PSKREPORTER	Opens the PSK Reporter map in your browser.
SHOW MAP / CLOSE MAP	Enlarges the map card to fill the window; the button changes to CLOSE MAP to restore it.
SHOW CLOCK / HIDE CLOCK	Displays the local time of the main cities of the world on the map. The map zooms out to show the whole world.
UTC	A live UTC clock (informational button).
SATELLITE / MAP	Switches between the street map and the satellite view. The button reads MAP while the satellite view is on.
ZOOM IN / ZOOM OUT	Zooms the map on the current position. After you zoom, the zoom level stays as you set it until you change contact through the lists or reset the filter.

6.2 NCDXF beacons

The BEACONS button displays the international NCDXF beacons on the map. Each marker shows the callsign of the beacon, its name and its frequencies. The panel **NCDXF Beacon Frequencies** contains one tick box for each beacon frequency: 14.100 MHz (20 m), 18.110 MHz (17 m), 21.150 MHz (15 m), 24.930 MHz (12 m) and 28.200 MHz (10 m). Untick the frequencies you do not want to see; the map updates immediately.

6.3 QSO details

Click a callsign marker on the map to open the **QSO Details** window. It lists name, grid locator, city, country, date and time, band and mode, and distance, and offers three buttons: **QRZ** (the QRZ.com page of the callsign), **IMAGES** (Google Images search) and **YOUTUBE** (a video search about the place). Close it with the Close button.

6.4 When a QSL has been loaded

If you have loaded the real QSL image of the current correspondent (manually or through eQSL SYNC), that image is shown on screen instead of the map during the slideshow, and the EXTERNAL QSL LOADED badge appears on the QSO card. Click the image to enlarge it and click again to restore it. When no QSL image exists for the contact, the large view shows the map with the position of the correspondent, the curve and the distance, as described above.

7. Searching for a Callsign

The **Search QRZ** box lets you jump straight to any contact in the log.

1. Type the callsign (up to 16 characters, upper or lower case). Special characters of portable operation are understood: searching for IK2ABC also finds IK2ABC/P, I/IK2ABC and similar.
2. Press Enter, or click **Search**. The program looks first for callsigns that match exactly (also with prefixes or suffixes) and, if none is found, for callsigns that contain the text you typed.
3. The slideshow shows that contact and pauses. A message next to the box reports for example "1/3 - IK2ABC - QSL loaded".
4. If the callsign appears in several contacts, press Enter (or Search) again to move to the next one; after the last you return to the first.
5. If nothing is found the message "No QSO found" is shown.

Search + QSL performs the same search and, as soon as the contact is on screen, opens its QSL CARD window. It is the fastest way to load the picture of a QSL you have just received.

8. Statistics

The **STATISTICS** button opens a transparent window titled **QSO Statistics** with the total number of contacts. It contains four boxes:

- **By Country**: number of contacts for each country.
- **By Band**: number of contacts for each band.
- **By Mode**: number of contacts for each mode (grouped by type).
- **Distances**: available once YOUR GRID has been entered. A summary shows the maximum distance (with the callsign and the country), the average distance, the total distance and how many contacts have a distance. Below it, all contacts are listed from the farthest to the nearest.

8.1 Highlighting contacts on the map

Click an item in **By Country**, **By Band** or **By Mode**: the window closes and the map shows only the contacts that match, highlighted in green, zoomed to contain all of them. For example, click 10m to see where you worked on ten metres, or a country name to see all its stations.

Press **Reset Filter** in the statistics window to go back to the normal view of the current contact.

8.2 Jumping to a contact from the distance list

Click any entry of the distance list: the slideshow jumps to that contact, pauses, and the map shows the curve from your station to the correspondent.

9. City List and Flags Collection

9.1 City List

The **CITY LIST** window title shows the number of different cities and the number of callsigns found. The list fills in as the slideshow goes by, because each city is looked up from the grid locator when the contact is displayed. Until at least one city is known, the window explains that the list fills in as the QRZs scroll by. Each city is shown with its country and the number of contacts made there.

9.2 Flags Collection

FLAGS COLLECTION opens a horizontal gallery with the flags of all the countries in your log; the title shows how many countries you have worked. Scroll it with the left and right arrows or with the mouse wheel. Click a flag to open the Wikipedia page of that country.

10. QSL Cards

Press **QSL CARD** on the map card to open the **QSL Card Generator** for the contact currently displayed. The card has two sides, selected with the tabs at the top of the window:

- **Front (Photo)**: a postcard with the callsign of the correspondent, city and country, the flag, and a photograph of the place when one is available. If you have loaded the real QSL image of this correspondent, it is used as the front instead.
- **Back (QSO Data)**: the confirmation side, with your callsign, the correspondent's callsign, date, UTC time, band, mode and RST report, the grid locator, the location with its coordinates, the distance, the name, a country map, and the wording "PSE QSL / TNX QSL - Thanks for the QSO! 73s". Fill in YOUR CALL and YOUR GRID first so that they appear on the card.

10.1 Buttons of the QSL Card window

Button	What it does
Print Both	Prints front and back of the card.
Load received QSL	Lets you choose, from your computer, the picture of the QSL card you received from this correspondent (JPG, PNG, WEBP, BMP or GIF). The picture is saved by the program, becomes the front of the card, is shown during the slideshow and is added to the list of QSLs received. Only one image per callsign is kept: loading a new one replaces the old one.
Remove image	After confirmation, deletes the saved image of this correspondent and returns to the card generated by the program.
Save .JPG	Saves the side of the card you are looking at as a JPG picture.
3D CARD	Opens the card as a three-dimensional postcard. Drag with the mouse to rotate it; the buttons Front, Back, Auto-rotate and Reset control the view. Press Esc or Close 3D to leave.
Close	Closes the window.

> **Note**
> Printing, saving as JPG and the 3D card need an Internet connection the first time, because the program uses online components to compose the images.

10.2 How to load the picture of a received QSL

1. Find the contact: let the slideshow reach it, or type the callsign in the search box and press **Search + QSL**.
2. Open **QSL CARD** (this happens automatically with Search + QSL).
3. Press **Load received QSL** and select the picture on your computer.
4. The picture appears at once as the front of the card; the EXTERNAL QSL LOADED badge appears on the QSO card and the callsign is added to the list of QSLs received.

Pictures are kept between one session and the next and are not affected when you load a different log or reload the page.

11. List of QSLs Received

The green **LIST OF QSLs RECEIVED** button opens an alphabetical list of all the callsigns for which a QSL image is available, with city and country when the callsign is in the loaded log. The title shows the total number of cards. If no image has been loaded yet, the window explains how to load one (open a QSO, press QSL CARD, then Load received QSL).

- Click a callsign to see its QSL card full screen. Click anywhere outside the card, or press Esc, to close the viewer.
- In the viewer bar, **Go to this QSO** closes the viewer and shows the corresponding contact in the slideshow (the slideshow pauses). This button appears only if the callsign is present in the loaded log.
- The list is updated automatically each time a card is added, removed or downloaded, even when the list is open.

12. eQSL Synchronisation

The purple **eQSL SYNC** button downloads from eQSL.cc the QSL cards you have received and stores them as if you had loaded them one by one. It is the quickest way to fill the list of QSLs received. You need an eQSL.cc account.

12.1 The synchronisation window

The window is displayed in Italian. Its elements are:

Element (as displayed)	Meaning
Utente (nominativo)	Your eQSL.cc username (normally your callsign).
Password	Your eQSL.cc password.
QTH Nickname (opzionale)	Optional. If you use several QTH profiles on eQSL.cc, enter the nickname of the profile whose cards you want.
Scarica solo le QSL dei nominativi presenti nel log caricato	Recommended option, ticked by default when a log is loaded: only the cards of the callsigns present in your current log are downloaded. Untick it to download the cards of all callsigns present on eQSL.cc. If no log is loaded, the option is disabled and all cards are downloaded.
SCARICA E SINCRONIZZA	Starts the download.
Annulla	Stops the operation in progress. The cards already downloaded remain saved.
Chiudi	Closes the window.
Progress bar, status line and log	Show how many callsigns have been processed (for example 12/80) and a detailed, time-stamped record of everything that happens.

12.2 Step by step

1. Load your log with **Load log** (recommended, so that only useful cards are downloaded).
2. Press **eQSL SYNC**.
3. Enter your eQSL.cc username and password; add the QTH nickname if needed.
4. Leave the option to download only the callsigns of the log ticked, unless you want everything.
5. Press **SCARICA E SINCRONIZZA** and wait. The program first requests the list of your received cards (the Inbox and the Archive), then downloads one card at a time.
6. Watch the progress bar and the log. Each card appears in the program as soon as it has been saved: you can see the badge and the list of QSLs received grow while the download is running.
7. When the operation ends, the status line shows the summary. Press **Chiudi** to return to the slideshow.

12.3 How the download works

- For each callsign only the **most recent** QSL is downloaded, because the program keeps one image per correspondent.
- Callsigns that already have an image are **not replaced**, including the images you loaded by hand. To replace one, first remove it from the QSL CARD window.
- To respect the request of eQSL.cc not to download too fast, the program waits about 3 seconds between one card and the next. A download of many cards therefore takes some time: it is normal.
- The final summary reads: Finito - number downloaded, already present, not found, errors. "Not found" means that eQSL.cc has no card image for that contact; "errors" indicate network problems or similar and can be retried by running the synchronisation again.
- If you close the window or press Annulla during the download, the operation stops cleanly after the current card; everything already downloaded stays saved.

12.4 Privacy

Your username and QTH nickname are remembered to save you typing them next time. The **password is never saved**: it must be typed again at each synchronisation.

> **Tip**
> If eQSL.cc does not return the list, the log window shows the message received from the site (for example a wrong username or password). Check your credentials by logging in on the eQSL.cc website, then try again.

13. Keyboard and Mouse Summary

Action	Result
Enter in the Search QRZ box	Searches the callsign; repeated Enter moves to the next match.
Enter in YOUR CALL or YOUR GRID	Confirms the value.
Esc	Closes the full-screen QSL viewer, the list of QSLs received or the 3D card.
Click on the QSL image shown on screen	Enlarges it / restores it.
Click on a callsign marker on the map	Opens QSO Details.
Click on an item in By Country / By Band / By Mode	Highlights the matching contacts in green on the map.
Click on an item of the distance list	Jumps to that contact and shows the curve.
Click on a flag in the Flags Collection	Opens the country page on Wikipedia.
Mouse wheel over the Flags Collection	Scrolls the gallery sideways.
Drag in the 3D card	Rotates the postcard.

14. Internet Connection and Online Services

CWSTATION QSL combines your log with several free online services. The table shows what each feature needs.

Feature	Online service used
Street map and satellite view	OpenStreetMap and satellite imagery tiles.
City name from the grid locator	OpenStreetMap place lookup.
Photographs of cities and countries	Wikimedia Commons image search.
Flags	Online flag images.
CONTACTED (country borders)	World country border data.
Print, Save .JPG, 3D CARD	An online component that converts the card into an image.
eQSL SYNC	The eQSL.cc website.
PROPAGATION, DX CLUSTER, PSKREPORTER, QRZ.COM, IMAGES, YOUTUBE	Open the respective websites in your browser.

Services are requested at a gentle pace; if a lookup is slow, the program simply waits and continues. Cities and photographs already found are remembered while the program is running, so a contact shown again appears immediately.

15. Troubleshooting

Problem	What to do
At start-up a message asks for Microsoft Edge WebView2 Runtime	Install the free WebView2 Runtime from Microsoft (the address is shown in the message) and start the program again.
"No QSO found. Use the button Load Log..."	No log is loaded or it contains no valid contact. Press Load log and choose an Excel or ADIF log that has the callsign column.
An error message appears after loading a log	Check that the file is a genuine .xlsx, .adi or .adif log and is not damaged. The previous log stays active.
A contact is shown without position on the map	The grid locator is missing or invalid in your log. Correct it in your logging program and reload the log.
Distances do not appear	Enter your locator in YOUR GRID (4 or 6 characters). If the box is red, the locator is not valid.
The city stays on "Loading..." or is Unknown	The place lookup needs Internet and may take a few seconds. A locator in the sea or in remote areas may have no city.
Print, Save .JPG or 3D CARD does not work	Check the Internet connection and try again; the first use needs to load the conversion component.
eQSL SYNC reports an error immediately	Check username, password and QTH nickname. The message from eQSL.cc is displayed in the log of the window.
Many cards are "not found" during eQSL SYNC	eQSL.cc holds no image for those contacts (some stations do not provide a card). They are not errors and can be loaded manually if you have the picture.
The download seems slow	This is intentional: a pause of about 3 seconds between cards is kept to be polite to eQSL.cc.
A card I loaded is wrong	Open its QSL CARD window, press Remove image and load the correct picture.

16. Suggested Workflow

A comfortable way to start from zero is the following:

1. Start the program and press **Load log** to choose your logbook.
2. Type your callsign in **YOUR CALL** and your locator in **YOUR GRID**.
3. Press **eQSL SYNC** and download your received eQSL cards (leave the log-only option ticked).
4. For the cards you received by post, use **Search + QSL** and **Load received QSL** to add the pictures one at a time.
5. Open **STATISTICS** and **FLAGS COLLECTION** to review your achievements, and **LIST OF QSLs RECEIVED** to browse your cards.
6. Press **Fullscreen** and let the slideshow run: each contact, with its map, QSL image and distance, is presented in turn.

Enjoy
Thank you for using CWSTATION QSL. 73!