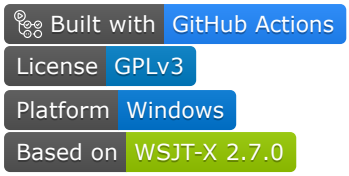
WSJT-SWISS



1. Purpose of WSJT-SWISS

WSJT-SWISS is a fork of WSJT-X designed for the **Swiss FT8 Contest**. It enables amateur radio operators to exchange Swiss canton codes as part of the FT8 digital mode protocol.

Canton Exchange Protocol

WSJT-SWISS uses a custom FT8 message type (i3=0, n3=7) to encode canton information in the 77-bit message structure. During a contest QSO, stations exchange their two-letter canton codes (e.g., ZH for Zürich, BE for Bern) instead of the standard grid locator.

Example QSO sequence:

```
Station A (ZH)              Station B (BE)
──────────────────────────────────────────
CQ ZH HB9AAA JN47
                            HB9AAA HB9BBB -07
HB9BBB HB9AAA -06
                            HB9AAA HB9BBB BE    ← Canton exchange
HB9BBB HB9AAA ZH            ← Canton exchange
                            HB9AAA HB9BBB RR73
```

ADIF Logging

Swiss contest QSOs are automatically logged with additional ADIF fields:

Field	Description	Example
`MY_CANTON`	Your canton code	`ZH`
`HIS_CANTON`	Contacted station's canton	`BE`

These fields integrate with contest logging software for scoring and verification.

2. Downloads

Download the latest release from the Releases page.

Package	Description
`wsjtx-swiss-installer.zip`	Windows installer (zipped)

Download Issues

Your browser or antivirus software may block the download because the file is not commonly downloaded. This is a **false positive** - the software is safe.

Chrome: Click "Keep" or go to Downloads and select "Keep dangerous file"

Edge: Click "Keep" → "Show more" → "Keep anyway"

Antivirus: You may need to add an exception or temporarily disable real-time scanning during download.

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3. Installation

1. Extract `wsjtx-swiss-installer.zip`
2. Run `wsjtx-swiss-installer.exe`

Microsoft SmartScreen Warning

Windows may show a SmartScreen warning because the application is not signed with a commercial code signing certificate.

To proceed:

1. Click **"More info"**
2. Click **"Run anyway"**

This is normal for open-source software distributed outside the Microsoft Store.

Antivirus Warnings

Some antivirus programs may flag the installer as suspicious. This is a false positive. You can:

- Add an exception for the installer
- Temporarily disable real-time protection during installation
- Verify the download by checking the file hash against the release notes

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4. Starting WSJT-SWISS

After installation, you can start WSJT-SWISS in several ways:

- **Start Menu:** Look for **WSJT-X** in the Start Menu
- **Desktop:** Use the desktop shortcut (if created during installation)
- **Installation folder:** Navigate to `C:\WSJT\wsjtx\bin\wsjtx.exe`

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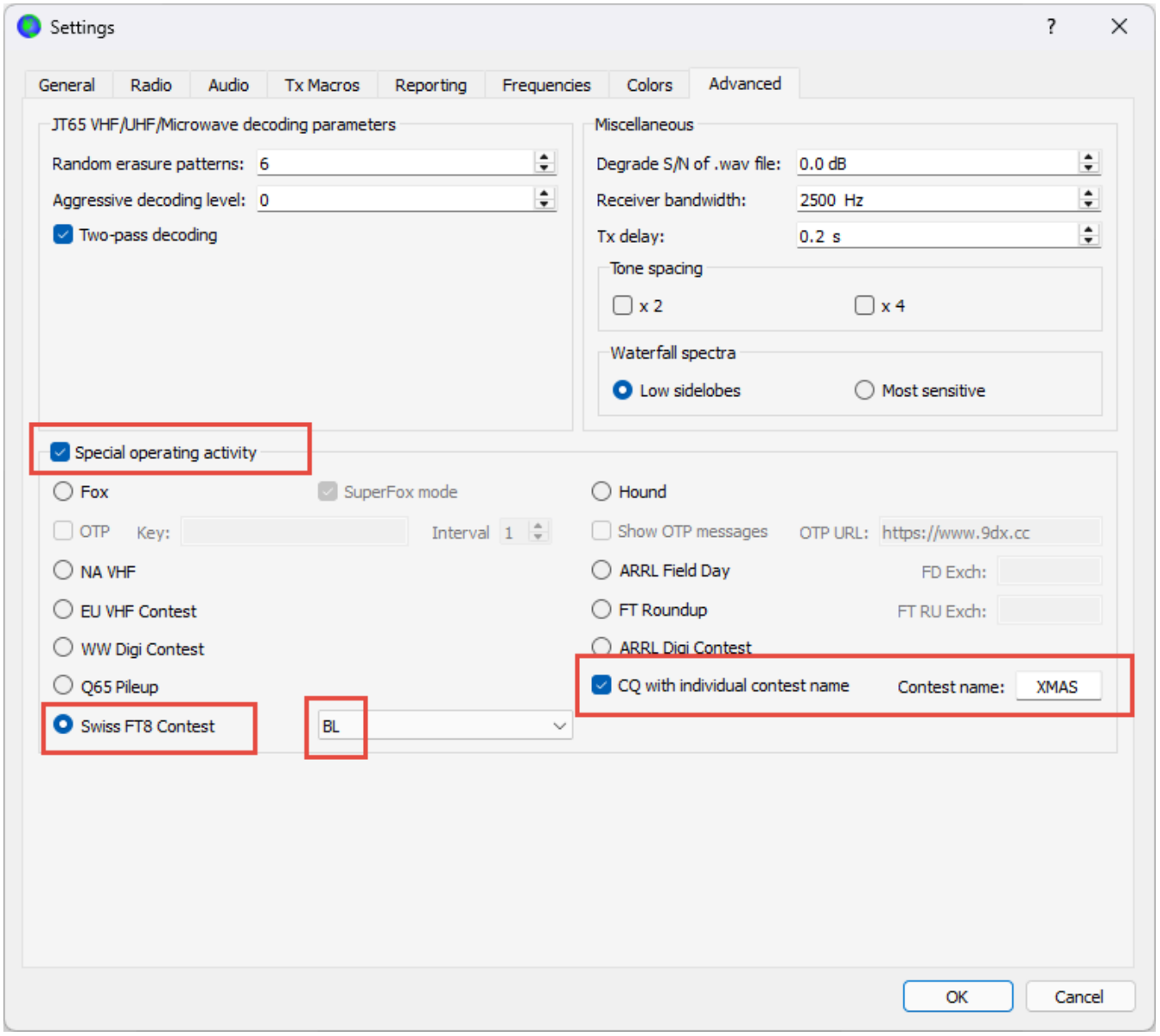
5. Setup

1. Launch **WSJT-SWISS** using one of the methods above
2. Go to **File** → **Settings** (or press F2)
3. Navigate to the **Advanced** tab
4. Under **Special Operating Activity**, select **Swiss FT8 Contest**
5. Choose your canton from the dropdown menu (default: BL)
6. Click **OK** to save
7. Add XMAS in the "Contest name"



Your TX messages will now automatically include your canton code during contest operation and you CQ "XMAS".

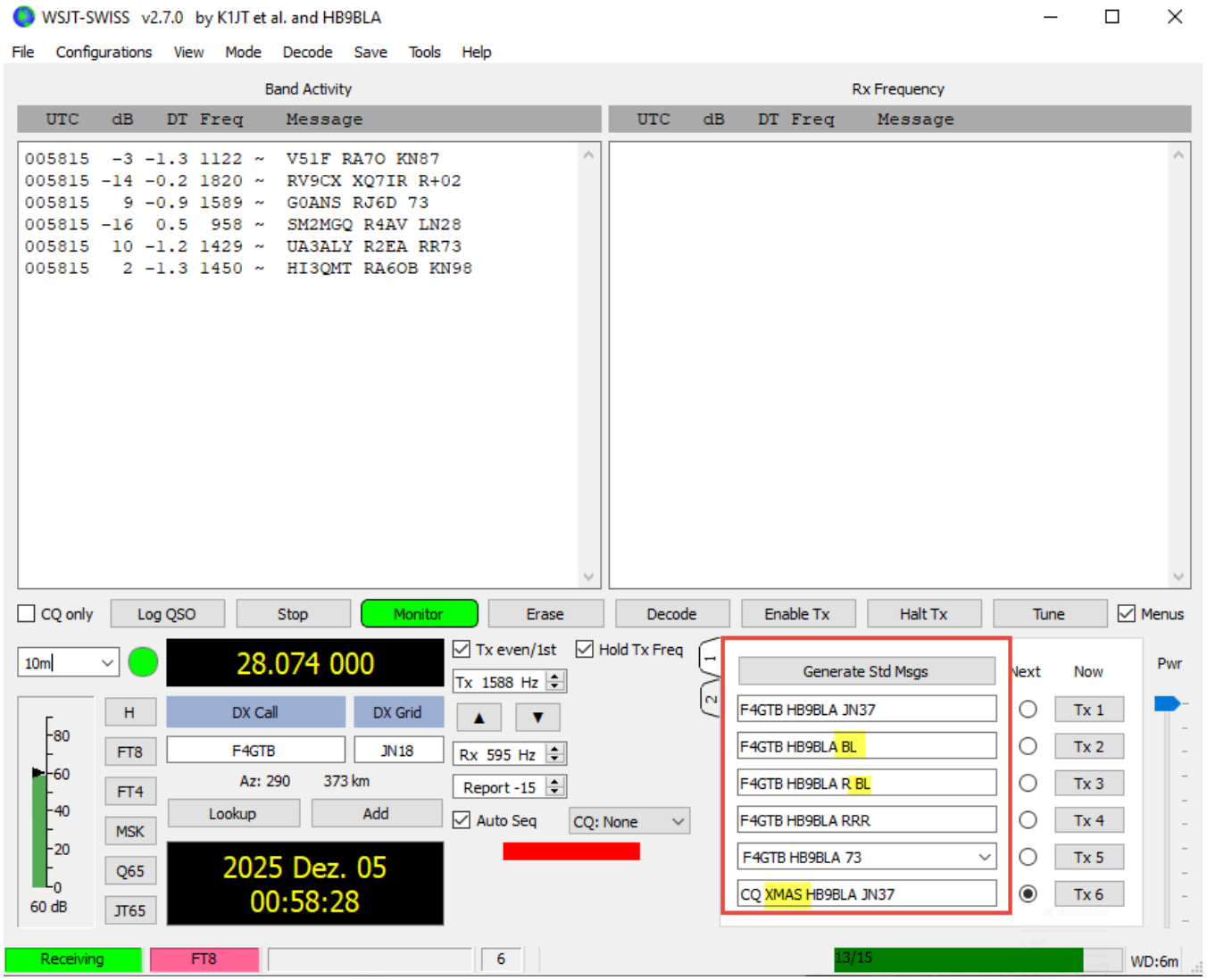
6. Operation

Starting a QSO

1. Enable **Swiss FT8 Contest** mode (see Setup)
2. Set your frequency to the contest frequency
3. Click **Enable TX** to start calling CQ, or double-click a station to reply
4. The canton exchange happens automatically during the QSO sequence

Message Flow

Step	Action
1	Station A calls CQ with canton (e.g., "CQ ZH HB9AAA JN47")
2	Station B responds with signal report
3	Station A sends signal report
4	Station B sends canton code
5	Station A sends canton code
6	Station B confirms with RR73



Logging

Completed QSOs are logged automatically with:

- Standard FT8 fields (callsign, time, frequency, mode, signal reports)
- Canton fields (`MY_CANTON`, `HIS_CANTON`)

Export your log via **File** → **Export ADIF** for contest submission.

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7. Compatibility

Scenario	Compatibility
WSJT-SWISS ↔ WSJT-SWISS	Full Swiss contest support
WSJT-SWISS ↔ WSJT-X	Standard FT8 modes work; canton messages not decoded
Standard FT8/FT4/etc.	Fully compatible with all WSJT-X versions

Note: Swiss contest messages (i3=0, n3=7) are only decoded by WSJT-SWISS. Standard WSJT-X will not display these messages.

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8. Building from Source

WSJT-SWISS uses **GitHub Actions** for automated builds. GitHub Actions is a CI/CD (Continuous Integration/Continuous Deployment) service that automatically compiles the software when triggered.

How to Trigger a Build

Manual:

1. Go to Actions
2. Select **"Build WSJT-X Windows Installer"**
3. Click **"Run workflow"**
4. Select the branch and click **"Run workflow"**

Finding Build Artifacts

1. Go to Actions
2. Click on a completed workflow run
3. Scroll to **Artifacts** section
4. Download `wsjtx-swiss-installer`

Artifacts are retained for 30 days.

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9. Hamlib Builds

Pre-built Hamlib libraries used for compiling WSJT-SWISS are available in a separate repository: hamlib-prebuilds. These are for developers only and not needed for regular users.

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10. Credits & License

Credits

- **WSJT-X** by Joe Taylor, K1JT and the WSJT Development Team
- **Swiss FT8 Contest Mode** fork maintained by Sensorslot

License