

Flex Skimmer Bridge Quick Start

Get on the air in minutes

Prerequisites

- ✓ SmartSDR running
- ✓ SmartSDR CAT running
- ✓ Flex DAX available
- ✓ CW Skimmer installed
- ✓ Correct DAX IQ channel selected
- ✓ Target slice chosen

The screenshot shows the Flex Skimmer Bridge application window. It has a title bar and a menu bar. The main area is divided into several sections. Section 1 (Connection and radio settings) includes fields for Flex IP, Target Slice (A), Telnet Login, CW Pitch Hz (700), CW Skimmer EXE (C:\Program Files (x86)\Afreet\CwSkimmer\CwSkimmer.exe), Flex API Port (4992), DAX IQ Channel (1), Skimmer Telnet Port (7301), and Accuracy Window Hz (2000). Section 2 (Startup options) has checkboxes for Launch CW Skimmer and Close Skimmer on exit. Section 3 contains buttons for Start Bridge, Stop, Save, Copy, and Hide Debug. Section 4 (DX spots from CW Skimmer) has buttons for Tune Selected and Clear, and a table of spots. Section 5 is a debug log showing the startup sequence and spot data.

1 Connection and radio settings

2 Startup options

3 Start Bridge Stop Save Copy Hide Debug

4 DX spots from CW Skimmer

5

Time	Frequency	Call	dB	WPM	Text
21:24:46Z	14.038500	K3CBK	20	15	CQ 2124Z
21:24:06Z	14.035000	K5IRH	32	22	DE 2124Z
21:23:46Z	14.045000	HK3W	12	17	DE 2123Z
21:23:27Z	14.037000	W1AW/7	24	22	CQ 2123Z
21:22:32Z	14.031300	KN6JHT	15	23	CQ 2122Z

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14:22:36 Slice A: handle=0, RF=14.038500 MHz, pan=0x40000000, dax_iq=0
14:22:36 SKIMMER >> SKIMMER/LO_FREQ 14038500 (Flex 14.038500 MHz, offset 0 Hz)
14:22:36 SKIMMER: Command supported only in the SoftRock mode
21:22:36 SKIMMER: de SKIMMER 2026-05-24 21:22Z CwSkimmer >
14:23:05 SKIMMER: DX de +#: 14037.0 W1AW/7 25 dB 22 WPM DE
14:23:27 SKIMMER: DX de +#: 14037.0 W1AW/7 24 dB 22 WPM CQ
14:23:31 SKIMMER: DX de +#: 14045.0 HK3W 12 dB 17 WPM
14:23:46 SKIMMER: DX de +#: 14045.0 HK3W 12 dB 17 WPM DE
14:24:06 SKIMMER: DX de +#: 14035.0 K5IRH 32 dB 22 WPM DE
14:24:46 SKIMMER: DX de +#: 14038.5 K3CBK 20 dB 15 WPM CQ
```

Startup Sequence

- 1 Enter radio and Skimmer settings.
- 2 Choose the target slice and DAX IQ channel.
- 3 Confirm CW Skimmer path and pitch.
- 4 Click **Start Bridge**.
- 5 Watch the DX spots list populate.
- 6 Select a spot and double-click or click **Tune Selected** to tune your radio.
- 7 **Save** settings for next time.
- 8 **Stop** the bridge when finished.

Notes

- Click **Hide Debug** to hide the debug log.
- Spot times are shown in UTC.
- ADI export uses UTC.
- CAT settings for each slice are configured in CW Skimmer / SmartSDR CAT.

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CW Skimmer settings checklist

Radio

Audio

OmniRig

Telnet

Before clicking Start Bridge

Radio tab

- 1 SoftRock-IF.
- 2 48 kHz.
- 3 LO Frequency matches the slice DAX IQ center reference.
- 4 CW Pitch 700 Hz.

Audio tab

- 1 MME.
- 2 Signal I/O = the selected FlexRadio DAX IQ channel.
- 3 Channel order must match your working I/Q setup.
- 4 Shift Right Channel Data = 0 samples.

OmniRig / CAT

- 1 Rig type SmartSDR.
- 2 Port = the SmartSDR CAT COM port for that slice.
- 3 RTS = Low.

Telnet

- 1 Enable Telnet Server.
- 2 Port 7301.
- 3 Allow SKIMMER commands.
- 4 Destination Address 127.0.0.1.

- SmartSDR DAX: the matching DAX IQ stream must be running.
- SmartSDR CAT: a CAT port must exist for the CW Skimmer instance or slice being used.
- Flex Skimmer Bridge: choose radio, target slice, DAX IQ channel, and telnet port, then Save and Start Bridge.
- For multiple CW Skimmer windows, repeat with separate slice, DAX IQ, and CAT port assignments.

UTC reminder

DX spot list times and ADI export fields use UTC. CAT and CW Skimmer control settings are set in SmartSDR CAT and CW Skimmer, not primarily in the bridge.