

W7PP

W7PP Mods v1.04.5

User Manual

Added and Changed Functions for WSJT-X v3.0.2

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Application title: WSJT-X v3.0.2 (W7PP Mods v1.04.5)

Scope: This manual explains the W7PP-added and W7PP-changed functions. Use the official WSJT-X v3.0.2 documentation for stock WSJT-X operation that is not changed here.

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Important: The Native Flex / VITA-49 changes are intentionally grouped in a separate section so operators using other radios can ignore them. Non-Flex radio paths remain standard WSJT-X paths unless another W7PP feature in Part I is selected.

PART I

GENERAL W7PP MODS

These functions apply regardless of radio unless a section says otherwise.

1. First launch and basic verification

What changed	A portable W7PP Mods build adds the W7PP functions while retaining normal WSJT-X configuration and logging behavior.
How to use it	Extract the entire release ZIP into its own folder. Keep all supplied files and subfolders together. Start the application from the extracted folder, not from inside the ZIP.
What to expect	The title bar should identify WSJT-X v3.0.2 (W7PP Mods v1.04.5). Standard radio/audio settings remain available, with added W7PP choices where documented below.
Operator tip	On a new computer, verify callsign, grid, radio, RX/TX audio path, logging destinations, and clock synchronization before transmitting.

First-use checklist

1. Confirm the title bar says W7PP Mods v1.04.5.
2. Open Settings and verify callsign, grid, radio, audio input/output, and any normal CAT/PTT settings.
3. Confirm the receive-level indication moves and normal decodes appear.
4. Leave Multi-Answer off for the first basic test.
5. Choose a Retry Limit and decide whether Auto CQ should be on.
6. Verify normal ADIF logging and any JTAlert/DXKeeper/N1MM route you use.
7. If using a Flex radio, complete the separate Native Flex checklist in Part II before transmitting.

2. Auto CQ

What changed	Auto CQ returns the station to CQ after a completed QSO or after an unanswered caller reaches its retry limit.
How to use it	Select Auto CQ on the main window, enable transmit, and call CQ normally.
What to expect	After a completed QSO the contact is logged and CQ resumes. After retry exhaustion the current caller is cleared and CQ resumes if Auto CQ is on.
Operator tip	Turn Auto CQ off when you want the transmitter to stop after a failed attempt. With Auto CQ off, retry exhaustion clears the call and Enable Tx turns off.

3. Retry Limit and signal-based retries

What changed	The Retry Limit is the operator-selected base number of report-message attempts. W7PP adjusts the effective limit for each caller from the caller's received SNR.
How to use it	Select a base Retry Limit of 1, 2, 3, or 5. No second SNR control is required.

What to expect	The caller SNR is captured when the QSO begins. Weak callers can receive one additional attempt, strong callers one fewer, and mid-strength/unknown callers use the base value.
Operator tip	A base value of 3 is a practical general setting. The effective value is fixed for that caller once calculated.

Caller SNR	Effective rule	Base 3 example
Below -15 dB	Base + 1	4 attempts
-15 through -3 dB	Base unchanged	3 attempts
-2 dB or stronger	Base - 1	2 attempts
Unknown	Base unchanged	3 attempts

4. Multi-Answer single-stream queue assist

What changed	Multi-Answer keeps one station active while one additional suitable caller waits. It is a single FT8 transmit stream, not two simultaneous independent signals.
How to use it	Select Multi-Answer and call CQ normally. The first suitable caller becomes active and another suitable caller may be held as next.
What to expect	The active QSO completes or reaches its retry path. A completed active QSO is logged first. The queued caller is then promoted and begins with TX2/report.
Operator tip	The combined overlay text is display/sequence information. It is not a second independently encoded FT8 transmission.

Queue rules

- One caller is active; one caller may wait.
- A received R-report is not treated as a new caller for the queue.
- Ignored calls are not eligible for automatic selection or queueing.
- Each active or promoted caller uses its own recorded SNR and retry limit.
- If an active QSO fails and a valid caller is waiting, the waiting caller may be promoted instead of returning to CQ.
- If no caller is waiting, Auto CQ determines whether the station resumes CQ or stops.

Recent-contact RR73 recovery

If a recently logged station repeats a message, W7PP can send a recovery RR73 while the current active/queued flow continues. The recently completed station is not queued or logged again; only one recovery RR73 is allowed for that call during the recent-contact window.

5. Ignore Calls

What changed	W7PP adds a saved list of callsigns that should not be automatically selected or added to the Multi-Answer
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How to use it	queue. Open Tools > W7PP Ignore Calls... Use Add, Remove, Clear, and Save to maintain the list.
What to expect	Ignored stations still appear in decoded text but are not eligible for W7PP automatic selection or queueing.
Operator tip	Ignore Calls does not erase log entries and does not hide received messages.

6. Decoder Workers

What changed	W7PP uses its own FT8 worker policy and displays the active worker count on the main window. The stock FT8 multithread option is not the control for this system.
How to use it	No normal operator action is required. Use the Workers display as status information.
What to expect	The count is chosen automatically, may adjust after initial decode periods, and is capped at eight workers.
Operator tip	More workers do not guarantee more decodes every period; CPU load and signal conditions still matter.

7. Display size, resizing, and Wide Graph placement

What changed	W7PP adds a 100%-160% saved display-size control, improves main-window resizing, protects the message area from becoming too narrow, and improves Wide Graph placement/persistence.
How to use it	Open Tools > W7PP Display Size... Select 100% through 160% in 5% steps. Save the choice and restart the application normally. Resize the main window and Wide Graph by dragging their edges.
What to expect	The chosen percentage scales both interface geometry and text on the next start. The main window remains freely resizable within its useful minimum size. Wide Graph remembers operator placement after normal close.
Operator tip	Use the smallest comfortable percentage that keeps all controls readable on your display.

Setting	Typical use
100%	Accepted base physical size
130%	Larger windows and text
150%	Very large interface
160%	Maximum menu setting

8. Pwr control scale

What changed	The main-window Pwr control is a true 0-20 dB transmit-audio attenuation scale with marks at 0, 5, 10, 15, and 20 dB.
How to use it	Adjust Pwr while watching actual radio output and ALC/drive indications. Start with more attenuation and reduce only as needed.
What to expect	0 dB is least attenuation. Larger numbers reduce generated transmit-audio level.
Operator tip	The Pwr scale does not replace a radio power meter. Recheck drive after changing radios, audio paths, DAX channels, or Windows audio levels.

9. Today's Work log

What changed	Today's Work is a session-only list of contacts made since the current WSJT-X start.
How to use it	Open Tools > Log > Today's Work.
What to expect	The list shows contacts from the current run and resets when the application restarts.
Operator tip	Use it as a quick operating-session summary. The normal WSJT-X ADIF log remains the permanent general log.

10. Contest Setup

What changed	W7PP includes a Contest Setup utility used by the W7PP Contest Logger for contest-specific station/exchange/scoring information.
How to use it	Open Tools > W7PP Contest Setup... (when present in the installed package). Enter the station callsign and exchange information required by the selected contest/profile, choose the appropriate power profile, and set any applicable bonus/scoring values. Save the setup before contest operation.
What to expect	The setup is saved in the WSJT-X local-data area and is read by the W7PP Contest Logger. Typical stored fields include CALL, CONTEST, EXCHANGE, POWER_PROFILE, POWER_MULTIPLIER, and BONUS_POINTS.
Operator tip	For a contest, verify the saved setup against the current contest rules before the first real QSO.

11. W7PP Contest Logger

What changed	W7PP replaces the stock contest-window path for supported activities with the W7PP Contest Logger while preserving the normal WSJT-X ADIF log.
How to use it	Choose the intended Special operating activity in Settings > Advanced, complete Contest Setup if required, then open Tools > Contest Pro Contest Log.
What to expect	The logger identifies the selected contest, displays contest contacts/exchanges/dupe status, and provides contest ADIF/Cabrillo export where supported.
Operator tip	Select and verify the contest before transmitting so the exchange and output format are correct.

Supported W7PP Contest Logger activity	Typical output
ARRL Field Day	Contest ADIF and Cabrillo workflow
WW Digi DX Contest	Contest ADIF and Cabrillo workflow
FT Roundup	Contest ADIF and Cabrillo workflow

What the logger records

- Duplicate status.
- Date/time in UTC.
- Callsign, mode, and frequency.
- Sent and received exchange.
- Notes and wrong-band information needed by the contest workflow.

Contest status label

When a supported contest activity is selected, the main window shows the current contest status near the CQ response area so the operator can confirm the active contest without opening the logger.

Duplicate policy

W7PP follows the operating rule LOG EVERYTHING. The first same-band completed contact is a normal QSO; later completed repeats can be marked X-QSO rather than suppressed, because the other station may still need the completed contact.

Clear Contest Pro Log

Clear Contest Pro Log starts a new visible contest-log period by hiding older records from the current contest view. It does not erase or replace the normal WSJT-X master ADIF log.

12. N1MM+ logging choices

What changed	W7PP adds a contest-only N1MM+ scoring feed while preserving the stock daily/general N1MM broadcast option.
How to use it	Configure the existing N1MM server/address and port in Settings > Advanced. Enable Send contest QSOs to N1MM+ for scoring when contest-only score packets are wanted.

What to expect	The contest-only option is off by default and sends only when a recognized contest activity is selected. The stock and contest options share the same sender so one completed QSO does not generate duplicate packets.
Operator tip	Use the stock option for general N1MM logging and the contest-only option for contest scoring. Verify with one test QSO before contest operation.

N1MM+ choice	Use
Broadcast to N1MM Logger (stock)	Daily/general N1MM logging
Send contest QSOs to N1MM+ for scoring	Contest scorekeeping only

The accepted contest-only N1MM path recognizes NA VHF, EU VHF, ARRL Field Day, FT Roundup, WW Digi, and ARRL Digi. This list is broader than the contests currently exposed by the W7PP Contest Logger itself.

13. Logging compatibility and duplicate policy

What changed	W7PP adds contest/session views and N1MM choices without replacing normal WSJT-X logging or existing external-application routes.
How to use it	Continue configuring the normal WSJT-X ADIF/UDP reporting, JTAlert, DXKeeper, LoTW/eQSL workflow, and other supported integrations as you normally would.
What to expect	Normal general ADIF logging continues. Today's Work, W7PP Contest Logger, and contest N1MM+ scoring are additional paths.
Operator tip	After changing logging settings, make one test QSO and verify each required destination independently.

Destination	Purpose	Persistence
Normal WSJT-X ADIF	Permanent general log	Permanent
Today's Work	Current operating-session summary	Resets at restart
W7PP Contest Logger	Contest view and exports	Contest-specific
JTAlert / DXKeeper	Existing external logging workflow	Unchanged route
N1MM+	Daily logging or contest scoring	Controlled by N1MM choices

14. Optional W7PP Kiwi Remote bridge

What changed	WSJT-X W7PP Mods can accept FT8 decode information from the separate W7PP Kiwi Remote application through the local bridge.
How to use it	Run W7PP Kiwi Remote separately when remote KiwiSDR receive/decode is wanted. WSJT-X checks for the Remote immediately at startup. Use Tools >

What to expect	Check for Remote at any time to start a new check cycle. Normal status is deliberately quiet: Looking for Remote is shown once when checking, and Found Remote is shown when the connection succeeds. If the Remote is absent, WSJT-X remains fully usable.
Operator tip	WSJT-X never starts, stops, or restarts W7PP Kiwi Remote. The Kiwi Remote application is a separate distribution and has its own operating manual.

Connection behavior	Accepted rule
First check	Immediate at WSJT-X startup
Retry interval	1 minute
Maximum attempts	3
Manual retry	Tools > Check for Remote starts a fresh 3-attempt cycle
Remote absent	Normal WSJT-X operation continues

Exceptional messages: Remote client is unavailable and Remote retry timer is unavailable are error/status conditions, not normal connection chatter.

15. Title bar, Help/About, and version identification

What changed	The accepted build removes the development suffix and identifies the application as W7PP Mods v1.04.5.
How to use it	Check the title bar after launch and use Help/About when confirming the build.
What to expect	The correct title is WSJT-X v3.0.2 (W7PP Mods v1.04.5). Help/About identifies WSJT-X v3.0.2 and W7PP Mods v1.04.5.
Operator tip	If another W7PP version or -devel appears, an older executable/folder is being launched.

PART II

NATIVE FLEX / VITA-49 FUNCTIONS

This entire part applies only when Flex Native VITA-49 and/or Native Flex RX is selected.

Non-Flex operators: You can skip Part II. The Flex meter row collapses for non-Flex operation and the normal WSJT-X radio/audio backends remain independent.

16. Native Flex overview and isolation from non-Flex operation

What changed	W7PP adds a direct FlexRadio network path for radio discovery/control, VITA-49 receive audio, VITA transmit audio, PTT, safety telemetry, meters, and manual tuner control.
How to use it	Select the Native Flex features only when operating a compatible Flex radio. For other radios, continue using the normal WSJT-X radio and sound-card paths.
What to expect	In the full Native Flex path, WSJT-X communicates directly with the Flex over Ethernet. SmartSDR GUI, SmartSDR CAT, virtual COM ports, and Windows DAX audio devices are not required for the native network path.
Operator tip	Standard Flex / Windows DAX operation is still available. Do not mix the two RX methods accidentally; choose the intended method in Settings > Audio.

Design rule: No Native Flex object/socket is created unless the Flex Native VITA-49 radio backend is selected. Flex-only displays are hidden/collapsed for non-Flex radios.

17. Flex discovery and radio selection

What changed	Opening Settings > Radio triggers a Flex discovery scan rather than running a continuous discovery process.
How to use it	Open Settings > Radio. Choose Flex Native VITA-49 as the radio backend. Allow discovery to complete. If one Flex is found it can be selected automatically; if more than one is available, select the desired radio. Apply/OK the settings.
What to expect	The selected/discovered radio is remembered for later Native Flex use. Re-entering the Radio settings allows a fresh scan when needed.
Operator tip	If the desired Flex is not found, verify the computer and radio are on the same reachable network before changing other settings.

No persistent listener: Flex discovery is event-driven from the Radio settings workflow; it does not run continuously in the background.

18. Native Flex receive setup and RX gain

What changed	Native Flex RX receives the Flex VITA-49 DAX audio stream directly over the network instead of using a Windows DAX/sound-card input.
How to use it	In Settings > Audio, select Native Flex VITA-49 RX and

	choose the desired Flex DAX channel. Apply/OK. The Windows audio input is not used for RX in this mode. Adjust the Native Flex RX gain while watching the WSJT receive dB meter.
What to expect	The Flex 48 kHz network audio is converted to the 12 kHz format used by the normal WSJT-X decoder path. The selected Native Flex RX method and DAX channel persist across restarts.
Operator tip	0 dB Native Flex RX gain preserves the received VITA level. Change gain only enough to put the normal WSJT receive level in a useful range.

Monitor behavior

The Native Flex VITA stream can remain established while Monitor is off. Monitor still controls whether received samples are fed into the WSJT-X decoding path, preserving familiar operator behavior while avoiding repeated network stream teardown/recreation.

Standard Flex RX remains available

If Standard Flex / Windows DAX RX is selected instead, the normal Windows audio input path is used. This choice is separate from the Native Flex radio backend and allows conventional operation when desired.

19. Native Flex frequency control, TX audio, and PTT

What changed	The Native Flex backend can control the selected Flex slice/frequency and transmit directly without SmartSDR CAT. W7PP also sends generated WSJT-X transmit audio to the Flex over the network and controls PTT directly.
How to use it	After selecting Flex Native VITA-49 and Native Flex RX as desired, use WSJT-X band/frequency controls normally. Set the Pwr attenuation as needed. Enable Tx and operate normal FT8/FT4 sequences after completing the safety checklist.
What to expect	WSJT-X owns/uses the selected Flex slice for the session, assigns the DAX transmit stream, sends VITA transmit samples, and keys/unkeys the radio through the Flex API. The direct RX stream stays available through TX so post-TX receive recovery is fast.
Operator tip	On first setup, verify frequency, RX decoding, generated TX audio level, actual RF output, PTT, and post-TX decode recovery before normal operation.

Full native path: When the complete Native Flex path is used, SmartSDR GUI, SmartSDR CAT, and Windows DAX audio applications are not required. If you deliberately use the Standard Windows DAX RX/TX route instead, those conventional dependencies still apply.

20. Native Flex safety gate and TX inhibit behavior

What changed	Native Flex transmission uses an independent safety
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How to use it	telemetry connection and a fail-closed pre-key gate. A safety problem can inhibit or stop TX without disturbing the proven RX/TX VITA data paths. Normally no operator control is required. If a safety popup appears, read the listed problems, correct the radio/network condition, then deliberately press Enable Tx again to request a fresh safety check.
What to expect	Before key-up, the gate requires a connected safety monitor, an active meter stream, received Flex interlock status, TX allowed, interlock READY, all required safety meters present, and fresh meter telemetry. During TX, loss of required safety state stops transmission.
Operator tip	A safety trip is latched. W7PP does not automatically resume transmitting when the condition clears; the operator must deliberately re-enable TX.

Pre-key requirement	Meaning
Safety monitor connected	Independent Flex telemetry/control monitor is alive
Meter stream active	Safety meter telemetry is arriving
Interlock status seen	Flex has reported transmit-interlock state
TX allowed	Flex reports transmission is permitted
Interlock READY	Flex interlock is ready to key
All safety meters seen	Required meter set is available
Meter age <= 2000 ms	Telemetry is fresh

Important: The colored SWR/VOLTS/TEMP display thresholds described in the next section are operator warning colors. Do not assume a display color alone is the entire TX safety policy. The fail-closed safety gate also checks Flex interlock and telemetry health.

21. Flex meter row: PWR, SWR, VOLTS, TEMP, ATU, ByPass, LEVEL

When Native Flex operation is active, W7PP adds a Flex-only meter/control row above the normal status area. The row is hidden/collapsed for non-Flex radios.

Item	Source / purpose	Normal indication	Warning indication
PWR	Flex FWD PWR - measured forward RF power	Neutral in RX; light green in TX	Use actual value to confirm RF output
SWR	Flex SWR meter	Light green below 2.00	Yellow 2.00-2.99; red/white at 3.00 or higher
VOLTS	Flex +13.8B supply meter	Light green from 11.0 through 15.0 V	Red/white below 11.0 V or above 15.0 V
TEMP	Flex PA temperature	Light green below 72.0 C	Red/white at 72.0 C or higher
ATU	Manual tuner command/status	See Section 22	See Section 22
ByPass	Manual tuner bypass/status	See Section 22	See Section 22

LEVEL	Flex GAIN telemetry / TX level indication	Existing moving color meter	Display only; verify drive with PWR/ALC as well
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LEVEL: LEVEL is intentionally separate from the Pwr attenuation control. Pwr changes the generated WSJT-X transmit-audio attenuation; LEVEL displays Flex GAIN/level telemetry.

22. ATU and ByPass operation

What changed

W7PP adds manual ATU and ByPass controls driven by actual Flex tuner status. There is no automatic tuner action based solely on SWR.

How to use it

When the tuner is off/bypassed, press ATU (Tuner ON/OFF) to start a tune. While tuning, wait for the status to complete. After a successful tune, press ByPass only if you intentionally want to bypass the tuned state.

What to expect

The button text and colors follow radio tuner state. Conflicting clicks while a tune is in progress are ignored. The radio status, not an assumed local state, determines the display.

Operator tip

Always watch SWR and RF output during tuning. Do not repeatedly command the tuner if the antenna/load condition is unsuitable.

Radio tuner state	ATU button	ByPass button
Bypassed / off	Light green - Tuner ON/OFF	Light green - Tuner Off
Tune in progress	Blue - Tuner ON	Red - Tuner Working
Tune successful / on	Blue - Tuner ON	Blue - Push to ByPass
Unknown / stale	Neutral - Tuner ON/OFF	Neutral status

Manual only: W7PP does not automatically start ATU because the SWR meter becomes high. Tuning is an operator-initiated action.

23. Native Flex operating checklist and troubleshooting

Before first Native Flex transmit

1. Open Settings > Radio and confirm the intended Flex is discovered/selected under Flex Native VITA-49.
2. Open Settings > Audio and confirm the intended RX method and DAX channel.
3. Confirm Native Flex RX produces a normal waterfall and decodes.
4. Adjust Native Flex RX gain only as needed for a useful WSJT receive level.
5. Confirm the WSJT frequency display controls the intended Flex slice.
6. Observe PWR, SWR, VOLTS, and TEMP telemetry before enabling transmit.
7. Confirm no safety-inhibit popup is present.
8. Use a low-risk test transmission/Tune and verify direct PTT, transmit audio, RF power, SWR, and post-TX receive recovery.
9. If using the ATU, command it manually and wait for a successful state before normal operation.

Common Native Flex symptoms

Symptom	Check
No Flex discovered	Network reachability; reopen Settings > Radio for a fresh discovery scan
No Native Flex decodes	Audio tab RX method, DAX channel, Monitor, RX gain, radio network path
Windows RX input disabled	Expected when Native Flex VITA-49 RX is selected
TX inhibited popup	Correct every listed safety/interlock/telemetry problem; then deliberately re-enable TX
SWR yellow/red	Stop and inspect antenna/load; ATU is manual, not automatic
VOLTS red	Check radio DC supply/cabling before transmitting
TEMP red	Allow PA/radio to cool and investigate excessive load/duty cycle
ATU says Tuner Working	Wait; conflicting clicks are intentionally ignored
Remote/Kiwi status missing	Unrelated to Native Flex; use Tools > Check for Remote only if Kiwi Remote is wanted

PART III

**OPERATING EXAMPLES AND QUICK
REFERENCE**

24. Operating examples

Example A - Normal CQ with Auto CQ

Step	Result
1	Enable Tx is active and CQ is transmitted.
2	A caller is selected and receives the report message.
3	The exchange completes and the QSO is logged.
4	The app returns directly to CQ.

Example B - Base Retry Limit 3 with a weak caller

Step	Result
1	Caller below -15 dB receives an effective limit of 4.
2	The report message may be sent up to four times.
3	No valid response arrives; the caller is cleared and is not logged as completed.
4A	Auto CQ on: return to CQ with Enable Tx active.
4B	Auto CQ off: Enable Tx turns off.

Example C - Multi-Answer with queued caller

Step	Result
1	Station A is active; Station B waits as next.
2	Station A completes the exchange.
3	Station A is logged before promotion.
4	Station B is promoted and receives TX2/report.
5	Station B becomes active; another suitable caller may wait.

Example D - Native Flex QSO without SmartSDR applications

Step	Result
1	Flex Native VITA-49 is selected and the desired Flex is discovered.
2	Native Flex VITA-49 RX and DAX channel are selected; decodes are verified.
3	Safety telemetry is healthy; PWR/SWR/VOLTS/TEMP are normal.
4	Enable Tx is pressed. W7PP performs the pre-key safety check.
5	WSJT-X keys the Flex directly and sends transmit audio over the network.

6	After TX, Native Flex RX resumes decoding without a Windows DAX audio restart.
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25. Troubleshooting

Symptom	Check
Title is wrong	An older wsjtx.exe/folder is running; launch the v1.04.5 release.
App stops after unanswered caller	Auto CQ is off or Enable Tx was cleared; review retry behavior.
Too many/few attempts	Remember the selected Retry Limit is a base value and caller SNR can add/subtract one.
Caller is not queued	Check Multi-Answer, Ignore Calls, R-report status, and whether a caller is already waiting.
Contest Logger will not open	Select a supported contest activity first and verify Contest Setup.
N1MM+ receives no contest QSO	Verify contest-only checkbox, supported activity, server/port, and successful logging.
Interface too small	Use Tools > W7PP Display Size..., save a larger percentage, then restart.
Wide Graph placement wrong	Move/resize normally, then close the app normally to save geometry.
Looking for Remote but no connection	Kiwi Remote is optional; start it separately or ignore the message.
Flex meter row absent	Expected for non-Flex radio; for Flex, verify Flex Native VITA-49 selection and connection.

Safety: Before transmitting on a new computer or radio, verify frequency, callsign/grid, TX audio drive, actual RF output, SWR, logging destinations, and any selected contest activity. For Native Flex, also verify safety telemetry and the Flex meter row.

26. Quick reference

Feature	Location	Key point
Auto CQ	Main window	Return to CQ automatically
Retry Limit	Main window	Base 1/2/3/5; SNR-adjusted per caller
Multi-Answer	Main window	One active caller plus one queued caller
Ignore Calls	Tools > W7PP Ignore Calls...	Skip selected calls for auto-selection/queueing
Workers	Main window	Automatic W7PP worker count; max 8
Display Size	Tools > W7PP Display Size...	100%-160%; used on next start
Pwr	Main window	0-20 dB TX-audio attenuation
Today's Work	Tools > Log > Today's Work	Current-session contact list
Contest Setup	Tools > W7PP Contest Setup...	Station/exchange/scoring setup
Contest status	Main window	Shows the selected contest activity
Contest Logger	Tools > Contest Pro Contest Log	Contest records and exports
Contest N1MM+	Settings > Advanced	Contest-only score feed
Check for Remote	Tools > Check for Remote	Fresh 3-attempt Kiwi Remote connection cycle

Native Flex radio	Settings > Radio	Select Flex Native VITA-49; discovery runs here
Native Flex RX	Settings > Audio	Direct VITA RX; select DAX channel
Native Flex RX gain	Main window when Native RX active	Adjust while watching WSJT receive dB
Native Flex TX/PTT	Automatic after setup	Direct network TX audio and PTT
Flex PWR/SWR/VOLTS/TEMP	Flex-only meter row	Live radio telemetry and warning colors
ATU / ByPass	Flex-only meter row	Manual tuner control; no auto-tune from SWR
LEVEL	Flex-only meter row	Flex GAIN/level telemetry; display only
Version check	Title bar / Help	Must show W7PP Mods v1.04.5

End of W7PP Mods v1.04.5 User Manual

For stock WSJT-X functions not changed by W7PP, use the official WSJT-X v3.0.2 documentation.