

SB-ITM Trading System v7.3.1

Configurable Parameters Overview

VPS / PAPER and LIVE Operations

Purpose

This document provides a high-level view of the main SB-ITM parameters that can be adjusted. It separates standard configuration from one-time setup parameters and from changes that require development, to avoid confusion during testing and onboarding.

Important operating principles

- Some settings are user-adjustable configuration parameters.
- Some settings are one-time setup parameters controlled through the Environment Switch function.
- Some changes require development and are not part of standard daily use.
- Trading-related changes should preferably be made before the bots are running.
- IBKR Gateway must be active and connected on the VPS for the bots to communicate with IBKR.
- Do not close black CMD windows while bots are running. They may be minimized, but not closed.
- In LIVE mode, IBKR will require MFA validation when IB Gateway starts. This is a security requirement and cannot be disabled.
- If MFA is not validated within 15 seconds, IBKR Gateway will not become fully active and the bots will remain inactive on the VPS.

Quick summary

Component	Standard configurable items	Requires development / not daily use
Regime Bot	Schedule; exposed regime thresholds only if configured	New regime logic, new indicators, or scoring-method changes
Scan Bot	Watchlist, candidate score threshold, schedule	New indicators, output/report structure changes
Bridge Bot	Minimum score, max symbols, ON/OFF	File-reading logic or internal selection logic changes
Entry Bot	Execution date/time, allocation, cash buffer, cutoff	Order logic changes
Risk Bot	TP, SL, 4 trailing levels, monitoring frequency with caution	Connection/account changes outside Environment Switch function
Watchdog Bot	Normally not user-adjusted	Monitoring/restart logic changes
Cash Bot	Normally not user-adjusted	Display/logic changes
Open Position Monitor Bot	Schedule and enabled/disabled use, if installed	Internal monitoring/display behavior changes
Scheduled Tasks	Bot start times	Complex orchestration changes

1. Regime Bot parameters

Can be adjusted:

- Scheduled run time, if automated with a Scheduled Task
- Existing regime configuration values, only when exposed in the installed configuration

Important:

- The installed framework uses the existing market regime modes: BULL, RANGE, and DEFENSIVE.
- Regime Bot should run before Scan Bot, because Scan Bot uses the active regime/scoring profile.

Requires development:

- Changing the regime detection logic
- Adding new regime modes beyond BULL, RANGE, and DEFENSIVE
- Adding new indicators or decision rules

Summary

Regime Bot determines the active market regime and prepares the correct scoring context before the Scan Bot runs.

2. Scan Bot parameters

Can be adjusted:

- Stock universe / watchlist to scan
- Candidate score threshold
- Scan schedule, if automated with a Scheduled Task

Important:

- The scoring matrix can be adjusted, but this is a critical configuration area and should not be changed casually.
- The installed scoring framework uses the existing market regime modes: BULL, RANGE, and DEFENSIVE.

Requires development:

- Changing technical indicators used by the scanner
- Changing report structure
- Changing output generation logic

Summary

The Scan Bot does not place orders. It only analyzes, scores, and generates output files.

3. Bridge Bot parameters

Can be adjusted:

- Minimum score required to select a candidate
- Maximum number of symbols to select
- Bridge Bot ON / OFF mode

Important:

- Bridge Bot uses Scan Bot results and decides which candidates are passed to Entry Bot based on configured rules.
- Example: the scan may show 7 top candidates, while Bridge Bot can be configured to keep only the top 3.

Requires development:

- Changing how Bridge Bot reads files
- Changing internal selection logic beyond the exposed configuration

Summary

Bridge Bot controls how many scan candidates are actually prepared for entry.

4. Entry Bot parameters

Can be adjusted:

- Execution date, manually or automatically through Bridge Bot
- Execution time (by default US open session, 09:30 AM New York time)
- Maximum allocation per position
- Available cash buffer
- Position selection based on available cash and minimum position size
- Safety cutoff time to avoid late unintended entries

Important:

- The IBKR account and port are not changed directly inside Entry Bot.
- PAPER / LIVE account and port are controlled through the Environment Switch function.
- If modifications are applied to Entry Bot parameters while Entry Bot is already open, close Entry Bot and launch it again so the changes are taken into account.

Requires development:

- Changing order logic
- Changing internal entry behavior beyond the exposed configuration

Summary

Entry Bot prepares and places entry orders based on the selected symbols and configured capital rules.

5. Risk Bot parameters

Can be adjusted:

- Take Profit percentage
- Stop Loss percentage
- 4 available trailing stop levels
- Trailing stop trigger levels
- Trailing stop distance

- Monitoring frequency, with caution

Important:

- By default, trailing stop checks are designed to run during regular market hours.
- The IBKR account and port are not changed directly inside Risk Bot. They are controlled through the Environment Switch function.
- Risk Bot remains active and monitors positions as long as the server is running, IBKR Gateway is connected, and the bot window remains open.

Requires development:

- Changing account/port connection behavior outside Environment Switch
- Changing internal risk logic beyond the exposed parameters

Summary

Risk Bot manages risk rules and position monitoring after positions are open.

6. Watchdog Bot

Can be adjusted:

- Normally not changed by the user

Important:

- Watchdog Bot is designed to monitor and restart the required SB-ITM components.
- Watchdog Bot must be the first bot to start when the VPS server is rebooted or if all bot windows are closed.
- In LIVE mode, starting Watchdog Bot can trigger IBKR Gateway login and MFA validation through the user smartphone.

Requires development:

- Changing what Watchdog monitors
- Changing how it restarts processes
- Changing paths or internal monitoring logic

Summary

Watchdog Bot helps keep the SB-ITM environment running.

7. LIVE mode MFA and Watchdog startup

Critical LIVE operating rule

When the system is used in LIVE mode, IBKR Gateway will request MFA validation when Watchdog Bot starts or when IB Gateway is restarted after a server reboot. This MFA validation is an IBKR security requirement and cannot be disabled.

- The user must have the smartphone available to approve the MFA request.
- If MFA is not approved within 15 seconds, IBKR Gateway will not become active and the SB-ITM bots will remain inactive on the VPS.

- Server reboot and Watchdog startup should therefore be scheduled only shortly before the user is available to validate MFA.
- Scheduled Tasks must be adapted to the client operating model, especially for LIVE trading.
- PAPER testing may be simpler, but LIVE mode requires this MFA constraint to be considered operationally.

8. Cash Bot

Can be adjusted:

- Normally not changed by the user

Important:

- It reflects the active PAPER or LIVE environment selected through the Environment Switch function.
- Cash Bot is mainly used to confirm the active IBKR account, connection port, available cash, and account value.

Requires development:

- Changing display format or internal logic

Summary

Cash Bot is a validation tool, not a trading bot.

9. Price Monitor

Can be adjusted:

- Normally not changed by the user unless an option is already exposed in the installed configuration

Important:

- Price Monitor is visual only.
- It does not place orders and does not manage positions.
- Its current behavior should be considered standard unless a specific installed configuration exposes options.

Requires development:

- Changing symbols, overlays, refresh logic, dashboard behavior, or display logic unless already exposed in the installed configuration

Summary

Price Monitor is used for visual monitoring only.

10. Recommended Scheduled Tasks for the flow

Scheduled Tasks are Windows automation settings on the VPS. The exact schedule must be aligned with the client workflow, the market schedule, and the MFA constraint in LIVE mode.

For LIVE mode, the server reboot and Watchdog startup should be scheduled at a time when the user can validate the IBKR MFA request from the smartphone. If the user cannot validate MFA, the bots may remain inactive.

Important scheduling principle

The recommended order matters: Regime Bot first, then Scan Bot, then Bridge Bot, then the controlled IB Gateway restart / VPS reboot window, then manual validation and Watchdog startup. Market-session tasks should be aligned with New York market time.

Default example sequence

Order	Paris time	New York time	Component / action	Purpose
1	02:30	20:30 previous day	Regime Bot started	Determines the active regime before the scan.
2	03:00	21:00 previous day	Scan Bot started	Scans the watchlist and generates CSV/XLSX output files.
3	04:00	22:00 previous day	Bridge Bot started	Reads the latest scan result and prepares selected candidates for Entry Bot.
4	04:45	22:45 previous day	IB Gateway turn off	Required daily IB Gateway restart cycle.
5	05:00	23:00 previous day	VPS reboot	Recommended for system stability.
6	05:10	23:10 previous day	Client connects to VPS	Client checks the server and runs Environment Switch if needed. In LIVE mode, client must be ready for MFA.
7	05:15	23:15 previous day	Client reviews logs	Client checks Regime Bot, Scan Bot, and Bridge Bot logs/results.
8	05:15	23:15 previous day	Manual Watchdog Bot start	Watchdog starts IB Gateway / IBC and required SB-ITM components. In LIVE mode, MFA will be required.
9	15:00	09:00	Manual Entry Bot start	Start if not open yet or if you made some changes to the Entry Bot parameters
10	15:20	09:20	Open Position Monitor Bot started	Optional market-session monitoring before the US open.
11	15:30	09:30	US market opens / Entry Bot execution window	Entry Bot may execute positions if candidates are configured and cash is available.

Time zone note

Paris is normally 6 hours ahead of New York during the standard US equity market schedule shown here. Market-session actions are aligned with New York market time: 09:30 New York = 15:30 Paris. Scheduled Tasks must be reviewed around daylight-saving changes if needed.

Scheduling cautions

- Do not schedule Watchdog Bot in LIVE mode at a time when the user cannot validate MFA.
- If the VPS reboots and IBKR MFA is not approved within 15 seconds, IBKR Gateway will not connect and the bots cannot operate.
- If the same IBKR account is active on another computer, browser, TWS, IBKR Desktop, or mobile app, the VPS Gateway session may disconnect or fail to authenticate.
- Risk Bot should normally be launched and monitored by Watchdog Bot, not manually restarted during active monitoring unless instructed. If you turn off the Risk Bot, the Watchdog Bot will restart it automatically within 60 seconds.
- Cash Bot remains an on-demand validation tool.

Environment Switch - what it controls

- Environment Switch is used to set the SB-ITM environment to PAPER or LIVE.
- It controls the relevant IBKR account and port settings used by the bots.
- It is not a daily trading parameter. It is used when changing from PAPER to LIVE or from LIVE to PAPER, or during first-time setup validation.
- After using IBKR on another computer, browser, TWS, IBKR Desktop, or mobile app, the VPS connection may need to be restarted/reconnected because the same IBKR account should not be active in multiple places at the same time.

Important

For SB-ITM to work correctly, the active IBKR Gateway session must be on the VPS. IBKR Gateway must remain active and connected while bots are running.

Parameter ownership matrix

Parameter area	Where controlled	Daily change?	Notes
PAPER / LIVE mode	Environment Switch shortcut	No	Only when changing environment or validating setup
IBKR account / port	Environment Switch shortcut	No	Not changed directly inside Entry, Risk, or Cash Bot
IBKR LIVE MFA	IBKR / smartphone validation	At each LIVE Gateway login if requested	Cannot be disabled; required for LIVE security
Market regime mode	Regime Bot / regime configuration	No / occasional	Used before Scan Bot to select the active scoring context
Regime detection thresholds	Regime configuration, if exposed	Occasional	Critical setting; changes should be controlled
Watchlist	Scan Bot configuration	Occasional	Can be adjusted carefully
Candidate threshold	Scan / Bridge configuration	Occasional	Controls selectivity
Maximum selected symbols	Bridge Bot configuration	Occasional	Limits how many candidates are passed forward
Execution date	Entry Bot / Bridge Bot	As needed	Manual or automatic depending on workflow
Execution time	Entry Bot configuration	As needed	Should be changed carefully
TP / SL	Risk Params shortcut	As needed	Trading-related setting
Trailing levels	Risk Params shortcut	As needed	Trading-related setting
Bot startup schedule	Windows Scheduled Tasks	Occasional	VPS automation setting

Final notes

- Not every parameter is meant to be changed daily.
- Some settings are one-time setup parameters.
- Some settings are trading preferences and should be confirmed before use.
- Some changes require development and should not be treated as simple configuration changes.
- Before changing any trading-related parameter, confirm the intended behavior first.
- In LIVE mode, plan the server reboot and Watchdog startup around the user availability for IBKR MFA validation.