BOS_CHoCH

BOS / CHoCH market structure indicator with "liquidity sweep → CHoCH → retest" trades for MetaTrader 4 and MetaTrader 5

Ready-to-use .EX4 (MT4) and .EX5 (MT5) files

📖 Статья (RU): https://s4u.pro/smart-money/bos-choch.html

📖 Article (EN): https://s4u.pro/en/bos-choch-strategy/

▶ Видео (RU): https://youtu.be/8bHsQq2vShg

▶ Video (EN): https://youtu.be/6y5xOh7Me9k

✈ Telegram: https://t.me/strategy4you

Files:	BOS_CHoCH.ex4 (MT4) BOS_CHoCH.ex5 (MT5)
Program type:	Indicator (not an Expert Advisor or script), does not trade
Signals:	CHoCH (article) / BOS / any break; with or without a liquidity sweep
Entry modes:	Level retest (article) / market / 50% leg / FVG / Order Block
Article timeframe:	H4
Version:	v1.00
Author:	@Strategy4you

1. What are BOS and CHoCH?

BOS (Break of Structure) is a candle close beyond the last swing high in an uptrend (or swing low in a downtrend): the trend continues. **CHoCH** (Change of Character) is the first break against the current structure: after a series of bearish breaks price closes above a swing high — the character of the market changes. On its own a structure break has no edge (≈0R over 9,000+ trades in the article). The working combination from the article: first a **liquidity sweep** (an old swing is pierced and price closes back), then a **CHoCH**, and a limit entry on the **retest of the broken level**.

Full strategy description: https://s4u.pro/en/bos-choch-strategy/

Setup rules

Element	BUY	SELL
Swings	Fractal: 3 candles on each side, confirmed 3 candles later (no look-ahead)	Same
Liquidity sweep	The leg low pierced a swing low (not older than 60 candles, untouched before) and the candle closed above it	The leg high pierced a swing high and the candle closed below it
CHoCH	Close above the last swing high while the structure was bearish	Close below the last swing low while the structure was bullish
Entry	Buy Limit at the broken level (retest)	Sell Limit at the broken level (retest)
Stop loss	5 pips below the sweep low (indices, crypto, silver, oil: 0.05% of price)	5 pips above the sweep high (indices, crypto, silver, oil: 0.05% of price)
Take profit	3R (3 × risk)	3R (3 × risk)

Order management

Rule	Description
Time cancel	The limit order is cancelled if not filled within 20 candles
Price cancel	The order is cancelled if a candle closes beyond the stop or price reaches the target before the entry
Time exit	The trade is closed at market after 60 candles if neither SL nor TP was hit
One trade at a time	While a trade is open, new signals on this symbol are skipped (SKIP label)
Risk	0.5–1% of the account per trade

What the indicator shows on the chart

- Grey dots — confirmed swing highs and swing lows
- Dotted line labelled **BOS** — break of structure with the trend; dashed line labelled **CHoCH** — change of character. Blue — break up, red — break down. The line runs from the swing to the break candle
- Orange line + "Sweep" — the swept liquidity level and the sweep candle
- Blue arrow ↑ (BUY) / red arrow ↓ (SELL) — the break candle that gave a setup
- Yellow dashed line — entry level; red — Stop Loss, green — Take Profit
- Result label: `+3.0R` (take profit), `−1.0R` (stop), `+0.4R (time)` (time exit), `X` (order cancelled), `BUY LIMIT / SELL LIMIT` (waiting for entry), `OPEN` (trade open), `SKIP (in trade)` (skipped — a trade is already open)
- Statistics panel: settings, signals, trades, cancels, skips, Win / Loss, win rate, total R and average R

2. Signals and entry modes

Which break gives a signal is set by **SignalType** (CHoCH / BOS / any), the liquidity sweep filter by **RequireSweep**, the entry by **EntryMode**. The BOS / CHoCH structure is always drawn, regardless of these settings.

EntryMode	Entry	Best for
Retest	Limit at the broken level. The article strategy (default)	Trading by the article rules
Market	At market on the open of the candle after the break	Aggressive entry, no missed trades
50% leg	Limit at the middle of the impulse leg (from the extreme to the high before the break)	Deep pullback
FVG	Limit at the first FVG (imbalance) of the leg	The BOS/CHoCH + FVG combination from the article — for comparison
OB	Limit at the Order Block — the last opposite candle at the extreme	The CHoCH + OB combination from the article — for comparison

Article results (46 markets: currencies, metals, indices, crypto; H4, 1999 — November 2026, 3R target, spread included)

Variant	Trades	Win rate	Total	PF	Drawdown
Sweep → CHoCH, retest	2 209	38.2%	+208.9R	1.16	−29.4R
Sweep → CHoCH, market	2 510	40.8%	+193.7R	1.14	−30.7R
CHoCH, retest (no sweep)	8 837	33.6%	+61.8R	1.01	−166.4R
BOS, market	9 970	34.1%	+17.8R	1.00	−336.7R
BOS + FVG	4 156	28.1%	−104.1R	0.97	−171.9R
CHoCH + OB	7 116	27.7%	−277.7R	0.95	−354.7R

> A bare BOS or CHoCH is around zero with a huge drawdown; the FVG and OB combinations lose. Only a CHoCH after a liquidity sweep is profitable: +208.9R, 30 of 46 markets positive, every market group positive, 2026 +30R. On H1 the same rules gave –217.6R — use H4. Check your symbol with the statistics panel.

3. Installing in MetaTrader 4

Step 1 — Open the indicators folder

MT4: File → Open Data Folder → MQL4 → Indicators.

Step 2 — Copy the file

1. Copy **BOS_CHoCH.ex4** to the `MQL4\Indicators\` folder
2. Restart MT4 or right-click in the Navigator → "Refresh"

Step 3 — Add it to a chart

1. Navigator (Ctrl+N) → Indicators → **BOS_CHoCH**
2. Drag it onto an H4 chart → "Common" tab: optionally tick "Allow DLL imports" (only for the welcome window)
3. Set the parameters on the "Inputs" tab → OK

4. Installing in MetaTrader 5

Step 1 — Open the indicators folder

MT5: File → Open Data Folder → MQL5 → Indicators.

Step 2 — Copy the file

1. Copy **BOS_CHoCH.ex5** to the `MQL5\Indicators\` folder
2. Restart MT5 or right-click in the Navigator → "Refresh"

Step 3 — Add it to a chart

1. Navigator (Ctrl+N) → Indicators → **BOS_CHoCH**
2. "Dependencies" tab: optionally tick "Allow DLL imports" (only for the welcome window)
3. In MT5 the welcome window appears on the first tick (platform behaviour). OK opens Telegram

> Without DLL permission the indicator works fully — only the welcome window is not shown; the copyright and links stay on the chart.

5. Indicator parameters

MARKET STRUCTURE

Parameter	Default	Description
SwingBars	3	Swing (fractal): N candles on each side. Larger = bigger structure
ShowStructure	true	Draw every BOS / CHoCH
ShowSwings	true	Mark swing highs and swing lows

SIGNAL

Parameter	Default	Description
SignalType	CHoCH	CHoCH / BOS / any break — which break gives a trade
RequireSweep	true	A liquidity sweep must come before the break (article)
SweepLookback	60	The swept swing is not older than N candles
TrendEMA	0	Trend filter: close above / below EMA N (0 = off)

TRADE LEVELS

Parameter	Default	Description
EntryMode	Retest	Retest / market / 50% leg / FVG / OB — see section 2
BufferMode	Auto	Stop buffer: auto (pips for currencies and gold, % of price for others) / always pips / always %
StopBufferPips	5	Stop buffer beyond the sweep extreme, pips (gold: 1 pip = $0.10)
StopBufferPct	0.05	Stop buffer in % of price for indices, crypto, silver, oil
RiskReward	3.0	Take profit in R
PendingBars	20	Cancel the limit order if not filled within N candles
MaxHoldBars	60	Close the trade at market after N candles (0 = off)
CostPips	0	Spread + commission for the statistics, pips (article: 1.5 on majors, 2.5 on crosses, 3.5 on gold)
OneTradeAtATime	true	Statistics: skip new signals while a trade is open

DISPLAY / COLORS / ALERTS

Parameter	Default	Description
HistoryBars	3000	History bars to mark up (0 = all history)
ShowBullish / ShowBearish	true	Show BUY / SELL signals
ShowSweeps	true	Mark the swept liquidity
ShowTradeLevels	true	Entry, SL and TP lines
ShowArrows / ShowResults	true	Signal arrows / result labels
ShowStats	true	Statistics panel
ArrowOffset / ArrowSize	5 / 3	Arrow distance from the wick (pips) / arrow size 1–5
Colors	—	BOS / CHoCH up and down, swings, liquidity sweep, arrows, entry, SL, TP, statistics
AlertPopup / AlertSound / AlertPush	false	Popup / sound / push notification on a new setup
AlertEveryBreak	false	Also alert on every BOS / CHoCH, not only on setups

6. Recommended settings

As in the article (H4, any liquid market)

Parameter	Value
Timeframe	H4
All parameters	Default (3-candle swings, liquidity sweep ≤60 candles, CHoCH, limit on the retest, stop 5 pips / 0.05% beyond the sweep, 3R, limit 20 candles, exit after 60 candles)
CostPips	1.5 on majors, 2.5 on crosses, 3.5 on gold
AlertPopup / AlertPush	true

Structure mark-up only (manual analysis)

Parameter	Value
ShowTradeLevels / ShowResults / ShowStats / ShowArrows	false
AlertEveryBreak + AlertPopup	true

Comparing with a bare structure break

Parameter	Value
RequireSweep	false
SignalType	CHoCH or BOS
EntryMode	Market or Retest

> In the article the strategy was tested on H4 (46 markets, 2,209 trades). Without a liquidity sweep CHoCH and BOS are around zero. Trades closed by time made +475R in total in the article — do not switch MaxHoldBars off. Check your market with the statistics panel (with CostPips).

7. Frequently asked questions (FAQ)

Q: Does the indicator repaint?

A: No. A swing is confirmed only after 3 closed candles, a break only on a candle close, and it recalculates once per new bar. That is why a swing point appears on the chart 3 candles late — the price of no repainting.

Q: Does the indicator open trades?

A: No. It is an indicator: it marks up the structure, shows entry / SL / TP levels and statistics. It places no orders.

Q: How does the indicator tell BOS from CHoCH?

A: A break in the same direction as the previous one is a BOS. A break in the opposite direction (or the first one in the history) is a CHoCH.

Q: How are the statistics calculated?

A: Without spread by default (gross); set the spread in CostPips. On the candle that fills the limit order only the stop counts; the take profit counts from the next candle (conservative). A profitable time exit counts as a Win. As in the article, only one trade at a time is counted per symbol.

Q: Why don't the panel numbers match the article?

A: The article uses its own quotes and time, crypto from Binance (UTC); your broker has its own quotes, server time, spread and history length. On identical candles the indicator logic matches the article test trade for trade.

Q: Few signals?

A: With the liquidity sweep there are several times fewer setups than bare CHoCHs: about 2 trades a year per symbol on H4 on average. Increase HistoryBars or switch RequireSweep off to study.

📖 Статья (RU): https://s4u.pro/smart-money/bos-choch.html

📖 Article (EN): https://s4u.pro/en/bos-choch-strategy/

▶ Видео (RU): https://youtu.be/8bHsQq2vShg

▶ Video (EN): https://youtu.be/6y5xOh7Me9k

✈ Telegram: https://t.me/strategy4you

Disclaimer: the indicator is a technical analysis tool and is not investment advice. Past performance does not guarantee future results.
© Strategy4you | https://t.me/strategy4you | https://s4u.pro/en/bos-choch-strategy/