PSEDYS | TECHNICAL REFERENCE MANUAL V3.0

LVN Zone — Low Volume Node

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Technical Reference Manual v1.0

PSEDYS | Volume Profile Indicators

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1. What is LVN?

Low Volume Node (LVN) is a price zone where the traded volume is significantly below the distribution average — the valleys in the Volume Profile histogram. LVN represents zones of **rejection**: participants did not want to trade at those prices, causing rapid traversal.

Distinctive behavior of LVN: price does not stagnate in LVN — it either passes quickly or rejects aggressively from the edge.

LVN is not a classic support or resistance — it is an accelerator. The edges of an LVN (where they meet adjacent HVNs) are the reactive levels, not the interior of the zone.

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2. Calculation Formula — 3 Steps

Step 1 — Prerequisite: Volume Profile

LVN uses the same volume_bins[] as POC and HVN. It is not recalculated separately.

Step 2 — LVN Threshold

```
LVN_THRESHOLD = 0.20    # 20% of the maximum bin
max_bin_volume = max(volume_bins)
lvn_threshold_volume = max_bin_volume * LVN_THRESHOLD
```

Threshold	Typical LVN Count	Usage
10%	1-2	Ultra-selective, extreme gaps
20%	2-5	Standard PSEDYS
30%	4-8	More permissive

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Step 3 — Identify LVN Zones

```
lvn_zones = []
for i, vol in enumerate(volume_bins):
    if vol <= lvn_threshold_volume:
        lvn_zones.append({
            "low":      price_min + i * bin_size,
            "high":     price_min + (i + 1) * bin_size,
            "mid":      price_min + (i + 0.5) * bin_size,
            "volume":   vol,
            "pct_of_poc": vol / max_bin_volume if max_bin_volume > 0 else 0,
            "is_void":  (vol == 0),
            "priority": "HIGH" if vol == 0 else "NORMAL"
        })
```

Bins with zero volume = air pockets (extreme LVN): Zones where the market has never traded in the lookback — guaranteed rapid traversal.

Numeric Example

```
lvn_threshold_volume = 2500 x 0.20 = 500

  bin 0 [98.0-99.8]:   V=600  24%  NOT LVN
  bin 1 [99.8-101.6]:  V=0    0%   LVN VOID (air pocket)
  bin 2 [101.6-103.4]: V=2500 POC  NOT LVN
  bin 3 [103.4-105.2]: V=1200 48%  NOT LVN
  bin 4 [105.2-107.0]: V=800  32%  NOT LVN

LVN Zone: low=99.8, high=101.6, mid=100.7
Priority: HIGH (void)
If the price falls below 101.6, it will traverse rapidly to 99.8
```

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3. Geometric Structure HVN–LVN

```
Typical profile structure:
[HVN 1]   <- support/resistance, price slows down
[LVN]     <- rapid traversal
[HVN 2]   <- support/resistance (often POC)
[LVN]     <- rapid traversal
[HVN 3]   <- support/resistance

Reactive levels = edges between HVN and LVN
```

4. Configurable Parameters PSEDYS

```
LVN_THRESHOLD      = 0.20   # 20% of max bin volume
LVN_LOOKBACK       = 100    # same as POC and HVN
LVN_NUM_BINS       = 50     # same
LVN_VOID_THRESHOLD = 0      # V=0 void, maximum priority
```

5. PSEDYS Trading Signals

LVN as a breakout accelerator:
- Price enters LVN with increased volume do not enter, wait for traversal
- Price exits LVN with closed candle beyond lvn_zone["high"] or ["low"]
- Confirms that the price is heading towards the next HVN

LVN as stop-loss placement:
- Stop-loss placed inside LVN is harder to reach
- Spikes reaching LVN tend to reject

LVN Void (air pocket) — maximum priority:
- Zero volume = market has never traded at that price in lookback
- Guaranteed rapid traversal
- Do not place stop in void, place beyond the next HVN

SKIP — when not to use LVN:
- Volatility >3x ATR on the current bar
- Funding Rate >0.15%

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6. LVN Cheat Sheet

Concept	Value / Rule
Standard Threshold	<=20% of the maximum bin volume (POC)
Acceptable Range	15%-25%
LVN Void	V=0 air pocket, HIGH priority
Price Behavior	Rapid traversal, no consolidation
Role in trading	Breakout accelerator, not classic S/R
LVN Edge	The real reactive level, not the interior of the zone
Stop-loss	Placed in LVN harder to reach
Target	The next HVN beyond the LVN
SKIP trigger	Spike >3x ATR or Funding Rate >0.15%
Tolerance vs TradingView	< bin_size / 2

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