

```
//@version=6
```

```
indicator("MFB - Levels Coherence", overlay=true, max_boxes_count=500,  
max_lines_count=500, max_labels_count=500)
```

```
// --- Inputs ---
```

```
group_sessions = "Sessions (EST/EDT)"
```

```
ny_sess_time = input.session("0930-1100", "NY Open", group=group_sessions)
```

```
lon_sess_time = input.session("0300-0430", "London Open", group=group_sessions)
```

```
tok_sess_time = input.session("1900-2030", "Tokyo Open", group=group_sessions)
```

```
nya_sess_time = input.session("1500-1630", "NY Afternoon", group=group_sessions)
```

```
asia_sess_time = input.session("1800-0000", "Asia Session", group=group_sessions)
```

```
lon_full_time = input.session("0000-0600", "London Full Session", group=group_sessions)
```

```
group_logic = "Strategy Logic"
```

```
points_dist = input.float(12.0, "Confluence Distance (Points)", group=group_logic)
```

```
group_display = "Display Settings"
```

```
show_info_table = input.bool(false, "Show Discernment Table", group=group_display)
```

```
show_aoi_score = input.bool(false, "Show AOI Score Label", group=group_display)
```

```
show_or_lines = input.bool(true, "Show OR Lines (15m, 30m, 1h)", group=group_display)
```

```
or_15_width = input.int(1, "15m OR Line Width", minval=1, maxval=10,  
group=group_display)
```

```
or_30_width = input.int(1, "30m OR Line Width", minval=1, maxval=10,  
group=group_display)
```

```
or_1h_width = input.int(1, "1h OR Line Width", minval=1, maxval=10,  
group=group_display)
```

```
show_pathway = input.bool(false, "Show Pathway Arrows", group=group_display,  
tooltip="Displays continuation arrows when price accepts outside the OR and is far from  
external liquidity.")
```

```
// --- Timezones & Sessions ---
```

```
tz = "America/New_York"
```

```
in_session(sess) => not na(time(timeframe.period, sess, tz))
```

```
is_new_session(sess) => in_session(sess) and not in_session(sess)[1]
```

```
ny_start = is_new_session(ny_sess_time)
```

```
lon_start = is_new_session(lon_sess_time)
```

```
tok_start = is_new_session(tok_sess_time)
```

```
nya_start = is_new_session(nya_sess_time)
```

```
any_start = ny_start or lon_start or tok_start or nya_start
```

```
// --- Session State & OR ---
```

```
var float sess_start_time = na
```

```
var float or_15_h = na, var float or_15_l = na
```

```
var float or_30_h = na, var float or_30_l = na
```

```
var float or_1h_h = na, var float or_1h_l = na
```

```
if any_start
```

```
    sess_start_time := time
```

```
    or_15_h := high, or_15_l := low
```

```
    or_30_h := high, or_30_l := low
```

```
    or_1h_h := high, or_1h_l := low
```

```

// Update ORs based on elapsed time from session start
time_elapsed_mins = (time - sess_start_time) / 60000

if time_elapsed_mins < 15
    or_15_h := math.max(or_15_h, high)
    or_15_l := math.min(or_15_l, low)
if time_elapsed_mins < 30
    or_30_h := math.max(or_30_h, high)
    or_30_l := math.min(or_30_l, low)
if time_elapsed_mins < 60
    or_1h_h := math.max(or_1h_h, high)
    or_1h_l := math.min(or_1h_l, low)

// Extend NY OR until 12:00 PM ET
in_ny_extension = not na(time(timeframe.period, "0930-1200", tz))

// Determine if we are currently in an extension period for drawing lines
is_extension_period = in_ny_extension or in_session(lon_sess_time) or
in_session(tok_sess_time) or in_session(nya_sess_time)

can_extend_lines = is_extension_period or (time_elapsed_mins >= 15 and
time_elapsed_mins <= 90) // 1.5 hours default extension

// Visualizing the ORs
var line or_15_h_line = na

```

```
var line or_15_l_line = na
```

```
var line or_30_h_line = na
```

```
var line or_30_l_line = na
```

```
var line or_1h_h_line = na
```

```
var line or_1h_l_line = na
```

```
if any_start
```

```
    or_15_h_line := na
```

```
    or_15_l_line := na
```

```
    or_30_h_line := na
```

```
    or_30_l_line := na
```

```
    or_1h_h_line := na
```

```
    or_1h_l_line := na
```

```
if show_or_lines
```

```
    if time_elapsed_mins >= 15 and not na(or_15_h) and na(or_15_h_line)
```

```
        or_15_h_line := line.new(bar_index - int(time_elapsed_mins), or_15_h, bar_index,  
or_15_h, color=color.red, style=line.style_solid, width=or_15_width)
```

```
        or_15_l_line := line.new(bar_index - int(time_elapsed_mins), or_15_l, bar_index,  
or_15_l, color=color.red, style=line.style_solid, width=or_15_width)
```

```
    else if time_elapsed_mins >= 15 and can_extend_lines and not na(or_15_h_line)
```

```
        line.set_x2(or_15_h_line, bar_index)
```

```
        line.set_x2(or_15_l_line, bar_index)
```

```
    if time_elapsed_mins >= 30 and not na(or_30_h) and na(or_30_h_line)
```

```
        or_30_h_line := line.new(bar_index - int(time_elapsed_mins), or_30_h, bar_index,  
or_30_h, color=color.red, style=line.style_solid, width=or_30_width)
```

```

    or_30_l_line := line.new(bar_index - int(time_elapsed_mins), or_30_l, bar_index,
or_30_l, color=color.red, style=line.style_solid, width=or_30_width)

    else if time_elapsed_mins >= 30 and can_extend_lines and not na(or_30_h_line)

        line.set_x2(or_30_h_line, bar_index)

        line.set_x2(or_30_l_line, bar_index)


    if time_elapsed_mins >= 60 and not na(or_1h_h) and na(or_1h_h_line)

        or_1h_h_line := line.new(bar_index - int(time_elapsed_mins), or_1h_h, bar_index,
or_1h_h, color=color.red, style=line.style_solid, width=or_1h_width)

        or_1h_l_line := line.new(bar_index - int(time_elapsed_mins), or_1h_l, bar_index,
or_1h_l, color=color.red, style=line.style_solid, width=or_1h_width)

        else if time_elapsed_mins >= 60 and can_extend_lines and not na(or_1h_h_line)

            line.set_x2(or_1h_h_line, bar_index)

            line.set_x2(or_1h_l_line, bar_index)


// --- Key Levels (PDH, PDL, PWH, PWL, PMH, PML, Asia, London) ---

[pdh, pdl] = request.security(syminfo.tickerid, "D", [high[1], low[1]],
lookahead=barmerge.lookahead_on)

[pwh, pwl] = request.security(syminfo.tickerid, "W", [high[1], low[1]],
lookahead=barmerge.lookahead_on)

[pmh, pml] = request.security(syminfo.tickerid, "M", [high[1], low[1]],
lookahead=barmerge.lookahead_on)


var float asia_h = na, var float asia_l = na

var float lon_h = na, var float lon_l = na


if is_new_session(asia_sess_time)

    asia_h := high

```

```

    asia_l := low
else if in_session(asia_sess_time)
    asia_h := math.max(asia_h, high)
    asia_l := math.min(asia_l, low)

if is_new_session(lon_full_time)
    lon_h := high
    lon_l := low
else if in_session(lon_full_time)
    lon_h := math.max(lon_h, high)
    lon_l := math.min(lon_l, low)

// Function to calculate confluence
get_confluence(float price) =>
    float nearest = na
    float min_dist = 999999.0
    int score = 0

    levels = array.from(pdh, pdl, pwh, pwl, pmh, pml, asia_h, asia_l, lon_h, lon_l)
    for lvl in levels
        if not na(lvl)
            dist = math.abs(price - lvl)
            if dist < min_dist
                min_dist := dist
                nearest := lvl
            if dist <= points_dist

```

```
score += 1
```

```
[nearest, min_dist, score]
```

```
[nearest_to_or_h, dist_h, score_h] = get_confluence(or_15_h)
```

```
[nearest_to_or_l, dist_l, score_l] = get_confluence(or_15_l)
```

```
is_aoi_h = dist_h <= points_dist
```

```
is_aoi_l = dist_l <= points_dist
```

```
// --- FVG-123 Logic ---
```

```
raw_fvg_bull = low > high[2] and close[1] > open[1]
```

```
raw_fvg_bear = high < low[2] and close[1] < open[1]
```

```
var float active_bull_fvg_top = na
```

```
var float active_bull_fvg_bot = na
```

```
var bool bull_retrace = false
```

```
var float active_bear_fvg_bot = na
```

```
var float active_bear_fvg_top = na
```

```
var bool bear_retrace = false
```

```
if raw_fvg_bull
```

```
    active_bull_fvg_top := low
```

```
    active_bull_fvg_bot := high[2]
```

```
    bull_retrace := false
```

```

if raw_fvg_bear

    active_bear_fvg_bot := high

    active_bear_fvg_top := low[2]

    bear_retrace := false


if not na(active_bull_fvg_top) and low <= active_bull_fvg_top

    bull_retrace := true


if not na(active_bear_fvg_bot) and high >= active_bear_fvg_bot

    bear_retrace := true


fvg123_bull = false
fvg123_bear = false


if bull_retrace and close > active_bull_fvg_top

    fvg123_bull := true

    active_bull_fvg_top := na


if bear_retrace and close < active_bear_fvg_bot

    fvg123_bear := true

    active_bear_fvg_bot := na


// --- Sweep/Reversal Logic Implementation ---

var bool swept_h = false

var float sweep_h_val = na

var bool swept_l = false

```



```
var float sweep_l_val = na
```

```
if is_aoi_h and high > math.max(or_15_h, nearest_to_or_h)
```

```
    swept_h := true
```

```
    sweep_h_val := na(sweep_h_val) ? high : math.max(sweep_h_val, high)
```

```
if is_aoi_l and low < math.min(or_15_l, nearest_to_or_l)
```

```
    swept_l := true
```

```
    sweep_l_val := na(sweep_l_val) ? low : math.min(sweep_l_val, low)
```

```
long_sweep_setup = swept_l and close > or_15_l and fvg123_bull
```

```
short_sweep_setup = swept_h and close < or_15_h and fvg123_bear
```

```
if long_sweep_setup
```

```
    swept_l := false
```

```
    sweep_l_val := na
```

```
if short_sweep_setup
```

```
    swept_h := false
```

```
    sweep_h_val := na
```

```
// --- Pathway Logic (Continuation) ---
```

```
is_pathway_h = dist_h > points_dist
```

```
is_pathway_l = dist_l > points_dist
```

```
long_pathway_setup = is_pathway_h and close > or_15_h and fvg123_bull
```

```
short_pathway_setup = is_pathway_l and close < or_15_l and fvg123_bear
```

```
// --- Visualizing Entries & Lines ---
```

```
plotshape(long_sweep_setup, "Long Sweep Entry", shape.triangleup, location.belowbar,  
color.green, size=size.small)
```

```
plotshape(short_sweep_setup, "Short Sweep Entry", shape.triangledown,  
location.abovebar, color.red, size=size.small)
```

```
plotshape(show_pathway ? long_pathway_setup : false, "Long Pathway Entry",  
shape.arrowup, location.belowbar, color.lime, size=size.small)
```

```
plotshape(show_pathway ? short_pathway_setup : false, "Short Pathway Entry",  
shape.arrowdown, location.abovebar, color.maroon, size=size.small)
```

```
// Move AOI labels to the right
```

```
if long_sweep_setup and score_l > 0 and show_aoi_score
```

```
    label.new(bar_index + 1, low, "AOI Score: " + str.tostring(score_l), color=#00000000,  
textcolor=color.green, style=label.style_label_left)
```

```
if short_sweep_setup and score_h > 0 and show_aoi_score
```

```
    label.new(bar_index + 1, high, "AOI Score: " + str.tostring(score_h), color=#00000000,  
textcolor=color.red, style=label.style_label_left)
```

```
// --- Information Table ---
```

```
var table infoTable = table.new(position.bottom_center, 2, 3,  
bgcolor=color.new(color.black, 70), border_color=color.gray, border_width=1)
```

```
if barstate.islast and show_info_table
```

```
    table.cell(infoTable, 0, 0, "Trade Discernment", text_color=color.white,  
text_size=size.small, text_halign=text.align_center, bgcolor=color.new(color.blue, 70))
```

```
    table.merge_cells(infoTable, 0, 0, 1, 0)
```

```
    table.cell(infoTable, 0, 1, "Confluence AOI", text_color=color.green, text_size=size.small)
```

```
table.cell(infoTable, 1, 1, "OR & Ext Liq  $\leq$  12 pts (Reversal/Sweep)", text_color=color.white,  
text_size=size.small, text_halign=text.align_left)
```

```
table.cell(infoTable, 0, 2, "Pathway Mode", text_color=color.lime, text_size=size.small)
```

```
table.cell(infoTable, 1, 2, "OR & Ext Liq  $>$  12 pts (Continuation)", text_color=color.white,  
text_size=size.small, text_halign=text.align_left)
```