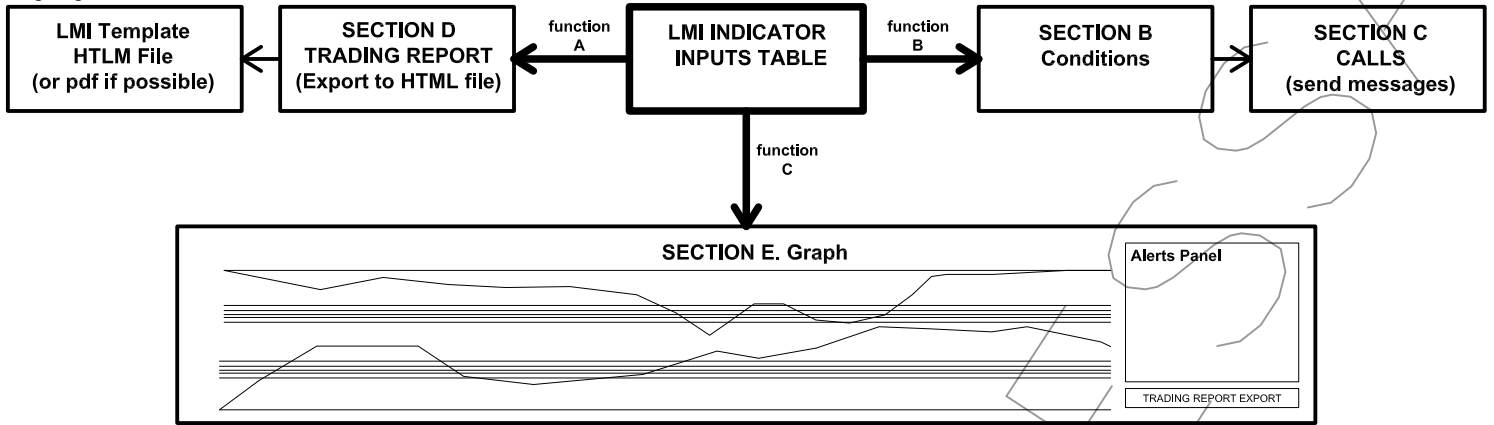


Organigram:



Function resume:

The indicator have 2 motors to calculate 2 different values:

Current Shoulder Leverage. $\text{Shoulder Leverage} = \text{TickValue} * \text{Bid} / \text{Margin Required} / \text{Point}$

Current Used Leverage. $\text{Current Used Leverage} = \text{Account Current Debit} / \text{Current Balance}$

And have 3 functions:

First: Showing leverages history on the graph with default and alert lines levels.

Second: Export trading report, 3 tables:

Table X. Account initial data table where trader write the values manually.

Table Y. Leverages histogram.

Table Z. Alerts levels table.

Third: Send notifications via mql5 and Telegram messages

One time per candle the indicator calculate and design the value on the graph with a point and a segment line.

If the segment line of the Current Used Leverage or/and Current Shoulder Leverage cross one horizontal alert line the indicator send a message via Telegram.

If cross only one alert line send one message if cross 5 in one time send 5 messages. Each alert level have his own message. Please see messages table.

ONLY FOR TRADERS: Defaults Alerts Levels example:

AL for Used Leverage = 1:25 // 1:50 // 1:100 // 1:200 // 1:300 // 1:400

AL for Shoulder Leverage = 1:400 // 1:300 // 1:200 // 1:100 // 1:50 // 1:25

Trader Actions:

Initial deposit values:

Default Shoulder Leverage 1:500

$\leq 1:400 = x1$ (100% of initial deposit)

$\leq 1:300 = x1,5$ (150% of initial deposit)

$\leq 1:200 = x2$ (200% of initial deposit)

$\leq 1:100 = x4$ (400% of initial deposit)

$\leq 1:50 = x8$ (800% of initial deposit) (note: if initial deposit is 50K, 800% is 50x8= 400K cent (\$4000 no cent)).

$\leq 1:25 = x16$ (1600% of initial deposit)

When shoulder leverage return to default level or go to previous levels the traders should withdraw the deposits to protect the balance.

Note for traders:

Without reserve funds i recommend closed open positions!

It's very easy loss all trading account with a Stop Out when market is moving fast!

"Shoulder Leverage (broker leverage) manipulation is the key to clean market makers (MM) and hybrid (STP) tables".

It's a "normal" forex "fraud" since many years!

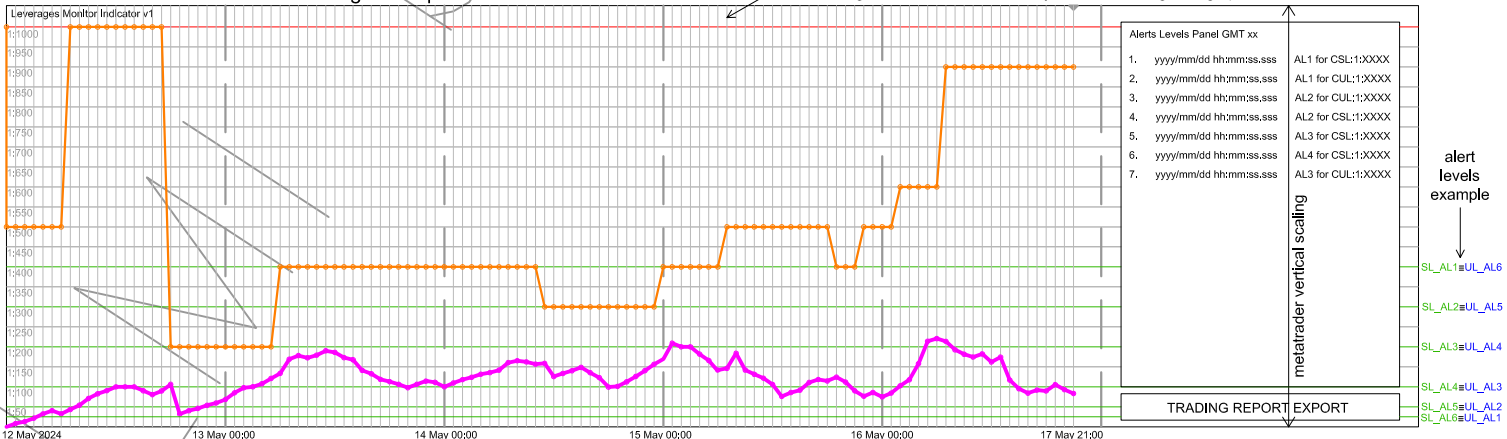
The most important variables that broker use to manipulate the shoulder leverage:

- Trading account size (account balance).

- News. Market Speed.

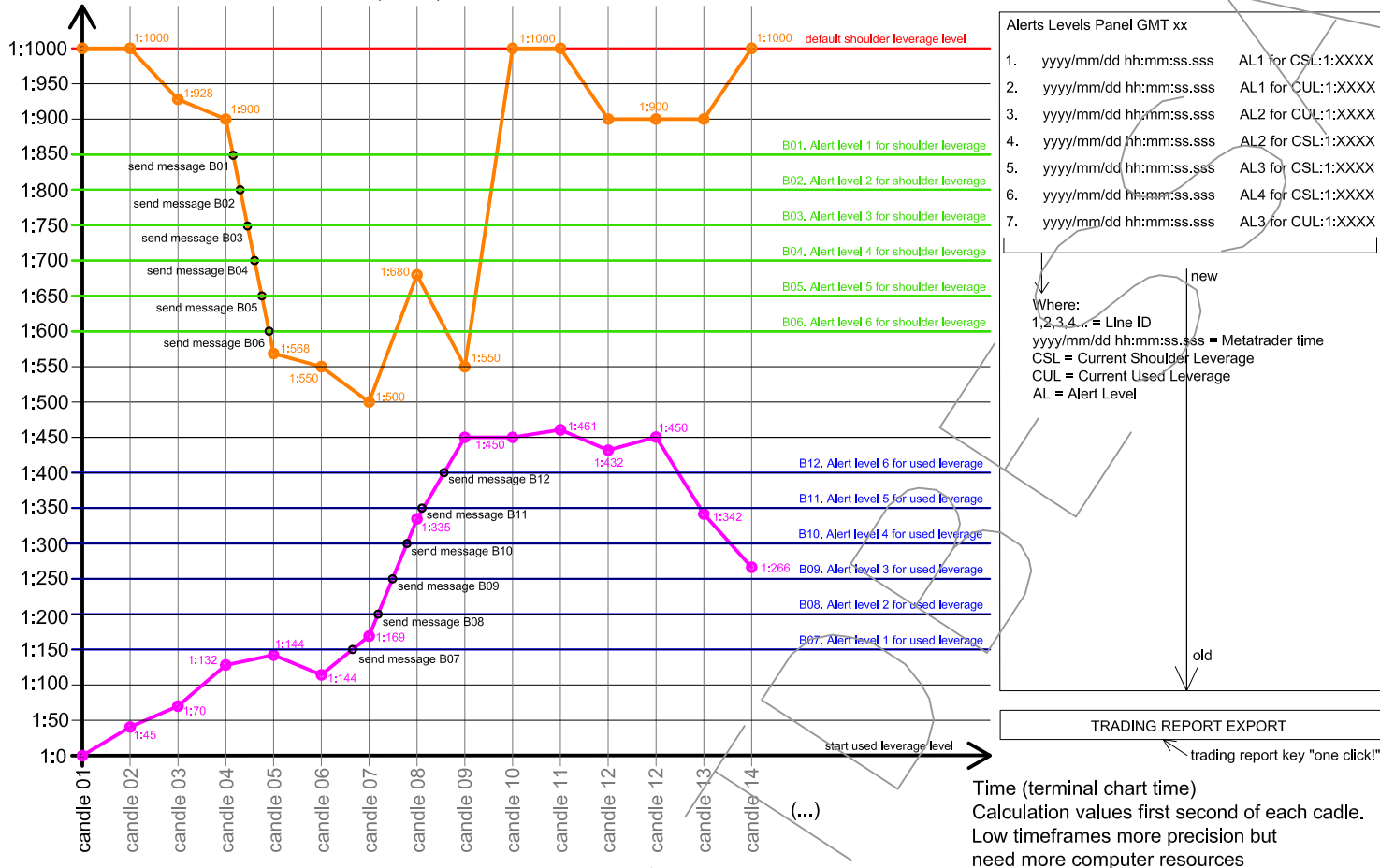
- Number of lots open in one direction. Sum of all lots in one direction. This variable it's shared with Used Leverage.

Indicator window on the chart running. Example TF=60 with less zoom:



ONLY FOR TRADERS: Deposits and Withdraws Simulation: Initial Deposit = 50K cent (\$500) // First Deposit (x2D) = 200% (\$+1000) // First Withdraw (x1,5W) = 150% (\$-750)
// Second Deposit (x0,5D) = 50% (\$+250) // Second Withdraw (x0,5W) = 25% (\$-250) // Third Withdraw (x0,5W) = 25% (\$-250)

LEVERAGES MONITOR INDICATOR v1 (LMI v1)



How it works?

In each candle the indicator check the values for "Current Shoulder Leverage" and for "Current Used Leverage" print the point value on the graph and design a segment line.

Graph Description:

- Default shoulder leverage level (DSL) is the leverage that trader choice when open a trading account.
- Current shoulder leverage line (CSL)
- Current used leverage line (CUL)
- Start used leverage level (SULL) always start in 1:0
- Alert level line for used leverage
- Alert level line for shoulder leverage

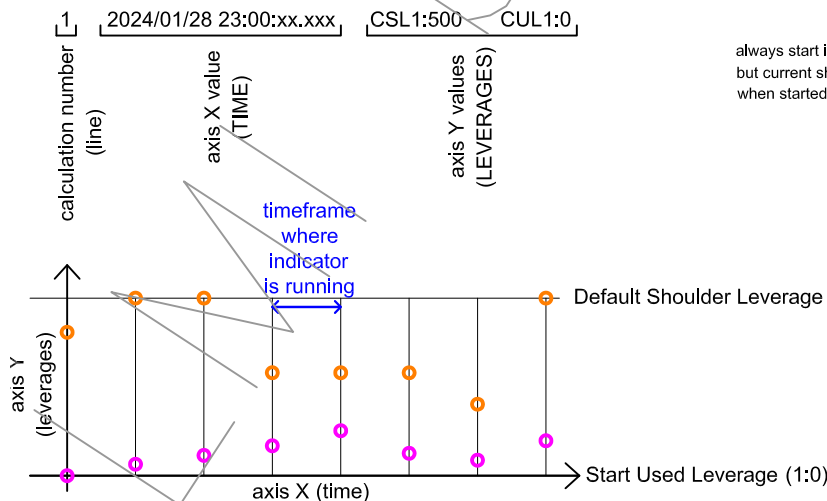
log file example (txt or csv) data save to design the lines and to do the trading report (in this example EURUSD M15)

1	2024/01/28 23:00:ss.sss	CSL1:500	CUL1:0
2	2024/01/28 23:15:ss.sss	CSL1:500	CUL1:1
3	2024/01/28 23:30:ss.sss	CSL1:500	CUL1:2
4	2024/01/28 23:45:ss.sss	CSL1:400	CUL1:3
5	2024/01/29 00:00:ss.sss	CSL1:400	CUL1:5
6	2024/01/29 00:15:ss.sss	CSL1:400	CUL1:3
7	2024/01/29 00:30:ss.sss	CSL1:200	CUL1:7
(...)			

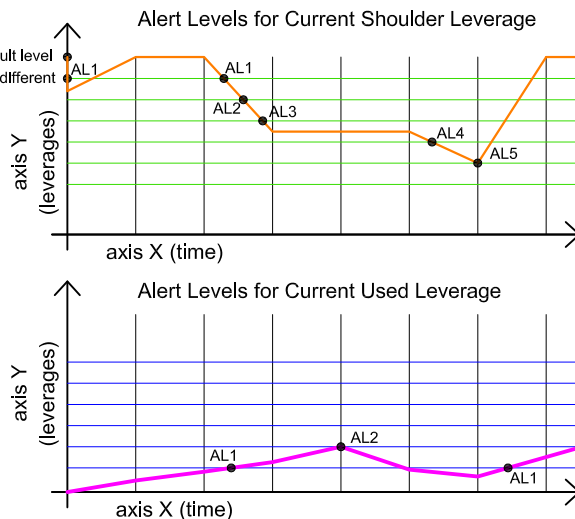
CSL = Current Shoulder Leverage
CUL = Current Used Leverage

log file example (txt or csv) Alert Levels panel data save:

1.	yyyy/mm/dd hh:mm:ss.sss	AL1 for CSL:1:XXX
2.	yyyy/mm/dd hh:mm:ss.sss	AL1 for CUL:1:XX
3.	yyyy/mm/dd hh:mm:ss.sss	AL2 for CUL:1:XXX
4.	yyyy/mm/dd hh:mm:ss.sss	AL2 for CSL:1:XXX
5.	yyyy/mm/dd hh:mm:ss.sss	AL3 for CSL:1:XXX
6.	yyyy/mm/dd hh:mm:ss.sss	AL4 for CSL:1:XX
7.	yyyy/mm/dd hh:mm:ss.sss	AL3 for CUL:1:XXX
(...)		



always start in the default level but current shoulder is different when started running



Parameters description:

SECTION A. MAIN:

A01. Inicial Deposit:

It's the start balance in currency when the trader open a trading account.
If the value is empty the the indicator it does not work.

A02. Default Shoulder Leverage Level:

It's the leverage that trader choice when open a trading account in the broker website service.

It's the leverage that trader would like have from his broker. Sometimes the trading account start with this value but sometimes could start with a lowest leverage. To work properly the indicator should have this value from 1:1 to 1:9999.

If the value is empty the the indicator it does not work.

Shoulder Leverage is managed by broker, some people can say "broker leverage".

A03. Default Used Leverage Level:

In this world Default Used Leverage is always 1:0. Is the start value of Used Leverage before open positions.

The developer could block the value to 1:0 but the trader must see the value 1:0 in the inputs table.

A04. Timeframe to check values and design points and segment lines on the chart:

This is the interval time to calculate values of (7 options = M1;M5;M15;M30;H1;H2;H4)

A05. GMT Terminal Time:

We have 3 options:

Local Time = Computer time.

Broker Time = Time that we can see on the Metatrader terminal window.

GMT Time = Default GMT if it's 00 it's the greenwich 0 etc...

SECTION B. ALERTS LEVELS (AL) CONDITIONS:

B01. Alert Level 1 for Shoulder Leverage (Broker):

B02. Alert Level 2 for Shoulder Leverage (Broker):

B03. Alert Level 3 for Shoulder Leverage (Broker):

B04. Alert Level 4 for Shoulder Leverage (Broker):

B05. Alert Level 5 for Shoulder Leverage (Broker):

B06. Alert Level 5 for Shoulder Leverage (Broker):

The trader customized his alert levels for shoulder leverage and when "current shoulder leverage line intersect the horizontal alert level line the indicator send a message via telegram for him. After this happened the trader should go inside to his own trading account immediatly and if he understand that the situation is dangerous he should protect his trading account to avoid a stop out and lost his funds.

Values from 1:1 to 1:9999.

Please see graph to understand how it works.

B07. Alert Level 1 for Used Leverage (Trader):

B08. Alert Level 2 for Used Leverage (Trader):

B09. Alert Level 3 for Used Leverage (Trader):

B10. Alert Level 4 for Used Leverage (Trader):

B11. Alert Level 5 for Used Leverage (Trader):

B12. Alert Level 5 for Used Leverage (Trader):

The function it's similar to shoulder leverage. The trader customized his alert levels for used leverage and when "current used leverage line intersect the horizontal alert level line the indicator send a message via telegram for him. After this happened the trader should go inside to his own trading account immediatly and if he understand that the situation is dangerous he should protect his trading account to avoid a stop out and lost his funds.

Values from 1:1 to 1:9999.

Please see graph to understand how it works.

SECTION C. CALLS:

C01. Send Telegram messages when one of AL (Alert Level) are made:

If true the indicator send a default message for each level when current shoulder leverage line or/and used leverage line cross alert levels lines.

C02. Telegram APIkey:

It's the telegram trader bot APIkey address to send the default alerts messages. To see the messages please visit page 5.

(OFF = empty) (ON= example: "1111111111:AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA")

C03. Send notification when one of AL (Alert Level) are made:

If it's true the indicator send notification via metaquotes and trader should see in the journal window terminal. The terminal will be save into default log file.

C04. Metaquotes ID:

Trader MQL5 ID account.

SECTION D. TRADING REPORT:

D01. Convert and export data history to a HTML file PATH:

The path where trader wants to save the trading report file.

D02. NOTE for trading report:

Note to trading report under logotype. This value should be around 20 digits. The function it's only copy from D02 input table value and past under logotype in front "Export Note:" of the trading report.

If it's empty in the trading report the box will be empty too.

X. Account Inicial Data Table Inputs:

From X01 to X17 the indicator only print on the template the values that trader wrote in the inputs table. The function it's only copy from inputs table values and past to the X.table of the trading report.

Y. Leverages Histogram Axis Scaling (for trading report):

Y01. Trading report period performance to print (axis X):

Default template window size for scaling = 395,00 (axis X) x 184,40 mm (axis Y).

Example if the trader want a trading report of 1 week and indicator it's working in a chart with H1 timeframe, how many intervals do we have in axis X(broker time GMT00)?

Axis X = 3(sunday) 24x4 + 21(friday) = 120

$i = 395 / 120 = 3,291 \text{ mm}$

Scaling the trading report histogram axis X from yyyy/mm/dd hh:mm to yyyy/mm/dd hh:mm.

Y02. Maximum Leverage to print (axis Y):

Maximum leverage it's the default shoulder leverage that trader choice when open a trading account.

Default interval is always each 1:50.

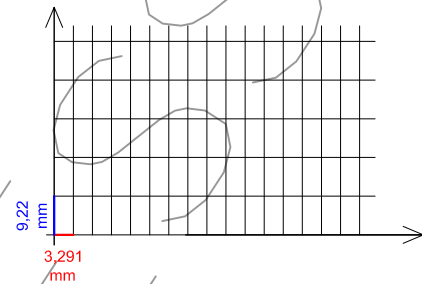
In this example the default shoulder leverage is 1:1000.

So we have 20 intervals.

Default template window size for scaling = 395,00 (axis X) x 184,40 mm (axis Y).

$i = 184,40 / 20 = 9,22 \text{ mm}$

Scaling the trading report histogram axis Y from 1:0 to 1:9999.



SECTION E. GRAPH:

From E01 to E28 it's the Color Type Width settings of the lines that indicator will print on the chart. We have the option to hide the lines too.

E29. Show leverage levels text left side each 1:50:

If this parameter it's true we should see the text leverage each 1:50 in the left side of the indicator window on the chart. Please see the graph in the page 1.

E30. Show Alerts Panel:

If trader wants see or not the Alert Levels Panel. True or False. If it's false the panel disappear.

WHAT IS IT "USED LEVERAGE AND SHOULDER LEVERAGE? FORMULAS TO CALCULATE DATA VALUES:

Current Used Leverage (Trader Leverage):

Formula:

Current Used Leverage = Account Current Debit / Current Balance

Account Current Debit it's the sum of all open lots in the account in currency (default is USD).

To switch the lots to currency we should calculate the contract value of each open position:

Position Value in Currency = Lot * Contract * Current ask for sale position or bid price for buy position.

Account Current Debit:

Account Current Debit calculation is for all positions.

Account Debit calculation EXAMPLE:

Conditions:

Account denomination currency = USD

Account default shoulder leverage: 1:100

Current Balance: 10.000 USD

Account current balance with shoulder leverage = 10.000 (current balance) x 100 (current shoulder leverage) = 1.000.000 USD (the broker hide this amount, we only see our deposit but we see the profits and the losses).

We are trading in this example 4 instruments:

- Trading instrument: **EURUSD**

Base currency (1): EUR

Margin requirement will be calculated in USD

Contract: 100.000 units

EURUSD rate at the time of opening position: 1,09032 USD

Volume: 0,77 lots

Formula: $0,77 \times 100.000 \times 1,09032 = 83.954,64 \text{ USD}$

- Trading instrument: **AUDNZD**

Base currency (1): AUD

Contract: 100.000 units

AUDNZD rate at the time of opening position: 1,07026

Volume: 0,55 lots

Formula: $0,55 \times 100.000 \times 1,07026 = 58.864,30 \text{ NZD}$

Convert NZD to USD using NZDUSD price = 0,61747

NZDUSD price = 0,61747

Now we convert this into the denomination currency (USD) using the pair NZDUSD: $58.864,30 \times 0,61747 = 36.347,52 \text{ USD}$

- Trading instrument: **CHFJPY**

Base currency (1): CHF

Contract: 100.000 units

CHFJPY rate at the time of opening position: 168,897

Volume: 0,60 lots

Formula: $0,60 \times 100.000 \times 168,897 = 10.133.820 \text{ JPY}$

Convert JPY to USD using USDJPY price = 146,830

Now we convert this into the denomination currency (USD) using the pair USDJPY: $10133820 / 146,830 = 69.017,36 \text{ USD}$

- Trading instrument: **GBPCAD**

Base currency (1): GBP

Contract: 100.000 units

GBPCAD rate at the time of opening position: 1,71503

Volume: 0,41 lots

Formula: $0,41 \times 100.000 \times 1,71503 = 70.316,23 \text{ CAD}$

Convert CAD to USD using USDCAD price = 1,34954

Now we convert this into the denomination currency (USD) using the pair USDCAD: $70.316,23 / 1,34954 = 52.103,85 \text{ USD}$

TOTAL account debit value is: $83.954,64 + 36.347,52 + 69.017,36 + 52.103,85 = 241.423,37 \text{ USD}$

Current Balance = 10.000 USD;

Account Current Total Debit = 241.423,37 USD

Current Used Leverage is = $241.423,37 / 10.000 = 24$. So current used leverage is **1:24**.

Shoulder Leverage (Broker Leverage):

Why constantly know the broker's shoulder if you once identified it in account settings?

It's simple: the broker can reduce it when the conditions of providing leverage are uncomfortable for him. Possible options for reducing the broker's shoulder:

- Exceeded the maximum allowable account balance, above which it is no longer profitable for the broker to provide such a high leverage. For example, the balance was \$30,000, shoulder 1:500. You found investors and the balance exceeded \$100,000 – the broker changes its leverage for 1:200.
- Broker against trading with an increase in the trading lot of each subsequent transaction. If you analyze your account, you show that you are using Martingale, the shoulder is cut.
- Temporary shoulder reduction before the release of particularly important news. In a news column or in a newsletter, you can often see information about shoulder changes due to news that can cause strong fluctuations in markets. Not a very pleasant point, especially if the trader trade with a leverage of 1:200, and the broker reduces it by 10 times to 1:20.

Formula:

Shoulder Leverage = TickValue * Bid / Margin Required / Point

Where:

TickValue: The size of the minimum change in the price of the instrument in the deposit currency.

Bid: is the price that the buyer of the financial instrument is willing to pay.

Margin Required: The amount of free funds needed to open 1 lot to buy.

Point: Item size in currency quotes.

The indicator identifies the broker's real leverage (shoulder leverage) and informs the user by notification and sending messages via Telegram when changing the shoulder below the Alert level for Shoulder Leverage that user wants (B01 parameter).

SECTION C. CALLS: TELEGRAM MESSAGES TABLE. EXAMPLES:

B01. Alert level 1 for shoulder leverage:

"LMI v1 Server Broker Name: xxxx xxxxxxxx Trading account: xxxxxxxxxx | Time: yyyy/mm/dd hh:mm:ss | Condition is made for ALERT LEVEL 1 SHOULDER LEVERAGE (broker). Default value: from 1:1 to 1:9999"

B02. Alert level 2 for shoulder leverage:

"LMI v1 Server Broker Name: xxxx xxxxxxxx Trading account: xxxxxxxxxx | Time: yyyy/mm/dd hh:mm:ss | Condition is made for ALERT LEVEL 2 SHOULDER LEVERAGE (broker). Default value: from 1:1 to 1:9999"

B03. Alert level 3 for shoulder leverage:

"LMI v1 Server Broker Name: xxxx xxxxxxxx Trading account: xxxxxxxxxx | Time: yyyy/mm/dd hh:mm:ss | Condition is made for ALERT LEVEL 3 SHOULDER LEVERAGE (broker). Default value: from 1:1 to 1:9999"

B04. Alert level 4 for shoulder leverage:

"LMI v1 Server Broker Name: xxxx xxxxxxxx Trading account: xxxxxxxxxx | Time: yyyy/mm/dd hh:mm:ss | Condition is made for ALERT LEVEL 4 SHOULDER LEVERAGE (broker). Default value: from 1:1 to 1:9999"

B05. Alert level 5 for shoulder leverage:

"LMI v1 Server Broker Name: xxxx xxxxxxxx Trading account: xxxxxxxxxx | Time: yyyy/mm/dd hh:mm:ss | Condition is made for ALERT LEVEL 5 SHOULDER LEVERAGE (broker). Default value: from 1:1 to 1:9999"

B06. Alert level 6 for shoulder leverage:

"LMI v1 Server Broker Name: xxxx xxxxxxxx Trading account: xxxxxxxxxx | Time: yyyy/mm/dd hh:mm:ss | Condition is made for ALERT LEVEL 6 SHOULDER LEVERAGE (broker). Default value: from 1:1 to 1:9999"

B07. Alert level 1 for used leverage:

"LMI v1 Server Broker Name: xxxx xxxxxxxx Trading account: xxxxxxxxxx | Time: yyyy/mm/dd hh:mm:ss | Condition is made for ALERT LEVEL 1 USED LEVERAGE LEVEL (trader). Default value: from 1:1 to 1:9999"

B08. Alert level 2 for used leverage:

"LMI v1 Server Broker Name: xxxx xxxxxxxx Trading account: xxxxxxxxxx | Time: yyyy/mm/dd hh:mm:ss | Condition is made for ALERT LEVEL 2 USED LEVERAGE LEVEL (trader). Default value: from 1:1 to 1:9999"

B09. Alert level 3 for used leverage:

"LMI v1 Server Broker Name: xxxx xxxxxxxx Trading account: xxxxxxxxxx | Time: yyyy/mm/dd hh:mm:ss | Condition is made for ALERT LEVEL 3 USED LEVERAGE LEVEL (trader). Default value: from 1:1 to 1:9999"

B10. Alert level 4 for used leverage:

"LMI v1 Server Broker Name: xxxx xxxxxxxx Trading account: xxxxxxxxxx | Time: yyyy/mm/dd hh:mm:ss | Condition is made for ALERT LEVEL 4 USED LEVERAGE LEVEL (trader). Default value: from 1:1 to 1:9999"

B11. Alert level 5 for used leverage:

"LMI v1 Server Broker Name: xxxx xxxxxxxx Trading account: xxxxxxxxxx | Time: yyyy/mm/dd hh:mm:ss | Condition is made for ALERT LEVEL 5 USED LEVERAGE LEVEL (trader). Default value: from 1:1 to 1:9999"

B12. Alert level 6 for used leverage:

"LMI v1 Server Broker Name: xxxx xxxxxxxx Trading account: xxxxxxxxxx | Time: yyyy/mm/dd hh:mm:ss | Condition is made for ALERT LEVEL 6 USED LEVERAGE LEVEL (trader). Default value: from 1:1 to 1:9999"

METAQUOTES NOTIFICATIONS (see in the terminal journal window). EXAMPLES:

"yyyy/mm/dd hh:mm:ss Condition is made for ALERT LEVEL 1 SHOULDER LEVERAGE with value 1:xxxx" > B01. Alert level 1 for shoulder leverage
"yyyy/mm/dd hh:mm:ss Condition is made for ALERT LEVEL 2 SHOULDER LEVERAGE with value 1:xxxx" > B02. Alert level 2 for shoulder leverage
"yyyy/mm/dd hh:mm:ss Condition is made for ALERT LEVEL 3 SHOULDER LEVERAGE with value 1:xxxx" > B03. Alert level 3 for shoulder leverage
"yyyy/mm/dd hh:mm:ss Condition is made for ALERT LEVEL 4 SHOULDER LEVERAGE with value 1:xxxx" > B04. Alert level 4 for shoulder leverage
"yyyy/mm/dd hh:mm:ss Condition is made for ALERT LEVEL 5 SHOULDER LEVERAGE with value 1:xxxx" > B05. Alert level 5 for shoulder leverage
"yyyy/mm/dd hh:mm:ss Condition is made for ALERT LEVEL 6 SHOULDER LEVERAGE with value 1:xxxx" > B06. Alert level 6 for shoulder leverage
"yyyy/mm/dd hh:mm:ss Condition is made for ALERT LEVEL 1 USED LEVERAGE with value 1:xxxx" > B07. Alert level 1 for used leverage
"yyyy/mm/dd hh:mm:ss Condition is made for ALERT LEVEL 2 USED LEVERAGE with value 1:xxxx" > B08. Alert level 2 for used leverage
"yyyy/mm/dd hh:mm:ss Condition is made for ALERT LEVEL 3 USED LEVERAGE with value 1:xxxx" > B09. Alert level 3 for used leverage
"yyyy/mm/dd hh:mm:ss Condition is made for ALERT LEVEL 4 USED LEVERAGE with value 1:xxxx" > B10. Alert level 4 for used leverage
"yyyy/mm/dd hh:mm:ss Condition is made for ALERT LEVEL 5 USED LEVERAGE with value 1:xxxx" > B11. Alert level 5 for used leverage
"yyyy/mm/dd hh:mm:ss Condition is made for ALERT LEVEL 6 USED LEVERAGE with value 1:xxxx" > B12. Alert level 6 for used leverage