



PMAM

Personal Multi Account Manager

User Guide

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Overview

Multi Account Manager (MAM) is designed to provide the professional trader the essential integrated software tools to quickly and conveniently allocate and manage funds under master account arrangement in live trading conditions.

MAM supports 10 allocation methods.

Allocations by Volume:

- ☑ Lot Allocation
- ☑ Percent Allocation
- ☑ Proportional by Balance Allocation
- ☑ Proportional by Equity Allocation
- ☑ Equity Percent Allocation
- ☑ Allocation by Equal Risk
- ☑ Lot Multiplier Allocation
- ☑ Lot Multiplier with Volume Fix

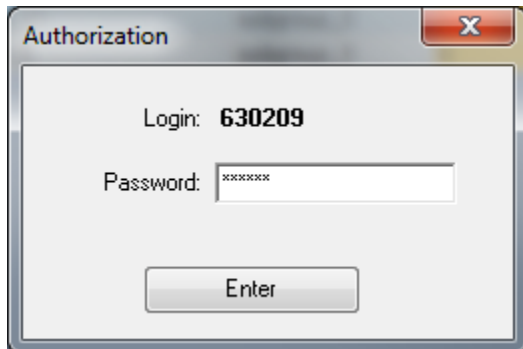
Allocations by P/L:

- ☑ Percent Allocation by P/L
- ☑ Proportional Allocation by P/L

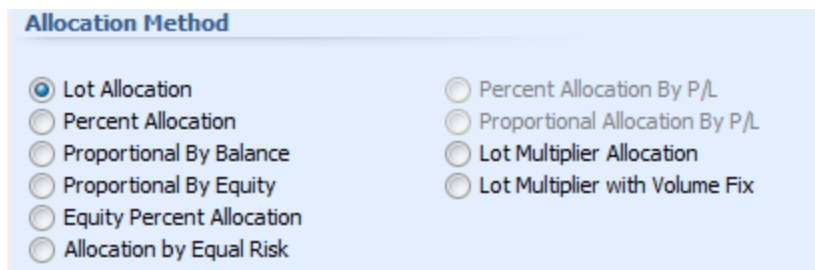
The MAM software can be used by the discretionary or automated systems traders. This Help manual will form the ongoing core knowledge base of the software system.

Logon and initialization

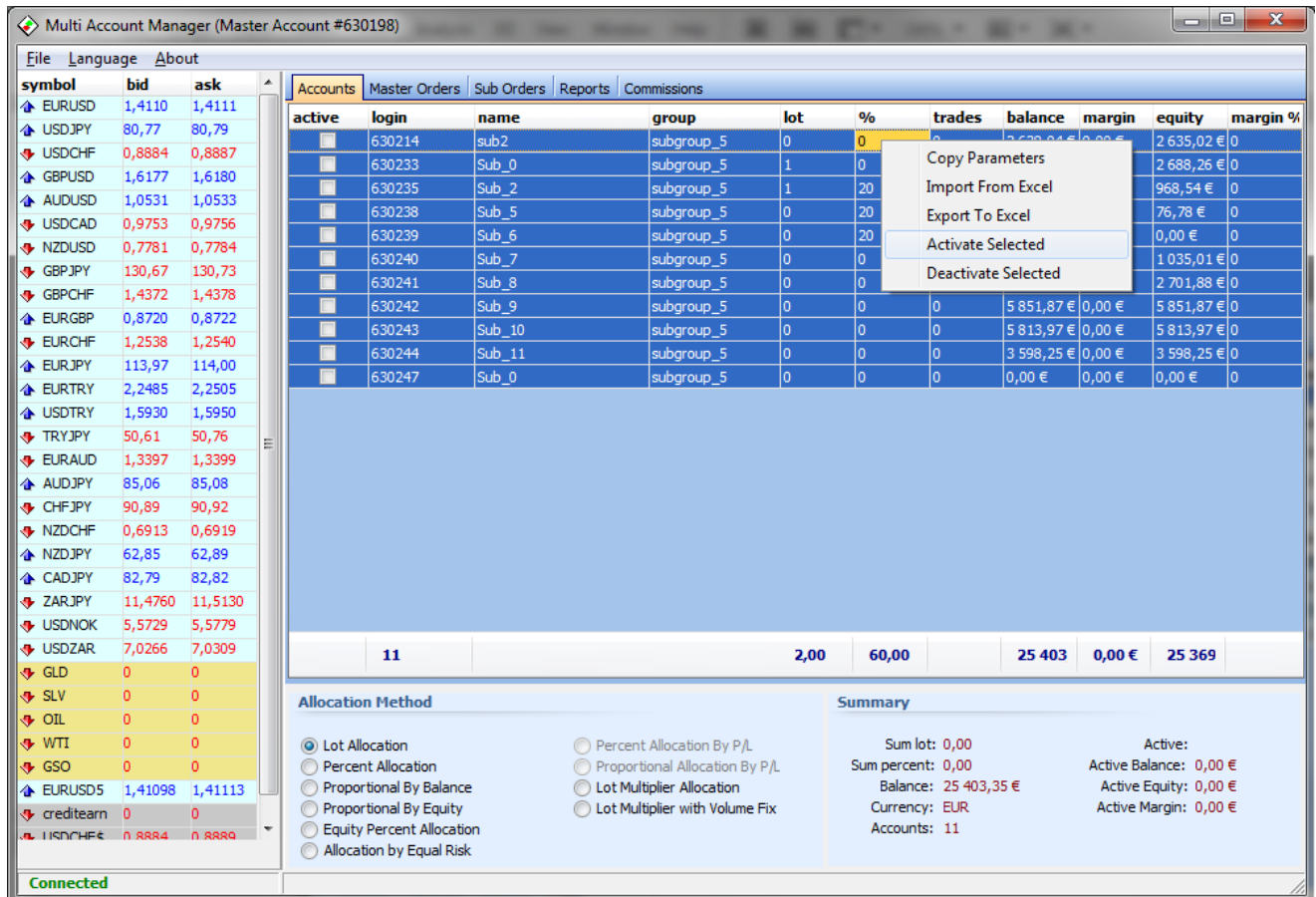
When the MAM application is installed it is required to pass through initialization procedure in order to connect to the server. To access the server the license file is provided with the MAM Client installation package. This license file is loaded using File->Set License menu. After the license is loaded by the MAM Client application it will ask for valid master account password. The password is the same as for the MT4 Client Terminal.



When MAM Client application is loaded for the first time it is required to initialize the accounts before trading can be performed. To initialize the master account it is required to select one of the allocation methods.



To initialize the sub accounts it is required to select the sub accounts and then use Activate Selected menu item from the popup menu.



After the accounts are initialized in MAM Client application the trading can be performed on the master account through the MT4 Client Terminal or MAM Client application (depends on broker permissions).

Accounts

The Accounts tab of the MAM Client application contains information about the managed accounts (sub accounts) and MAM allocation parameters. The sub accounts table contains all available sub accounts and their properties. The properties can be changed right on the table. The next parameters of the sub accounts can be changed: 5

Active – this parameter is used to enable the sub account for trading. The MAM allocates trades from the master account to the Active sub accounts only. The Active property of the sub account is used for opening trades only. This parameter is ignored when trades are closed because when closing trades MAM already knows what sub accounts the trade was allocated to. So the number of Active sub accounts can be changed while positions are opened on the master account.

Lot – this parameter is used by the “Lot Allocation”, “Lot Multiplier Allocation” and “Lot Multiplier with Volume Fix” methods. This parameter defines the number of lots to allocate to the sub account.

% (percent) – this parameter is used by the “Percent Allocation” and “Equity Percent Allocation” and “Percent Allocation by P/L” methods. This parameter defines the percentage amount of the master trade volume (or P/L) which will be allocated to the sub account.

It is possible to copy the same value of the parameter to more than one sub account. For this one needs to select the sub accounts to copy the parameter to. Then right click on the parameter which needs to be copied and in the popup menu select Copy Parameters option.

Allocation parameters can be exported and imported from Excel. To export sub accounts to Excel select the sub accounts that need to be exported and in the popup menu select Export to Excel option. The Excel spreadsheet can be modified and saved.

To Import sub accounts’ parameters from Excel in the popup menu select Import from Excel option. The parameters of the sub accounts listed in the Excel spreadsheet will be imported and applied for the sub accounts.

The Summary tab shows the most essential parameters for allocation.

Summary	
Sum lot: 1,00	Active: 1
Sum percent: 20,00	Active Balance: 994,31 €
Balance: 25 403,35 €	Active Equity: 968,54 €
Currency: EUR	Active Margin: 0,00 €
Accounts: 11	

Sum Lot – the sum of Lot parameter for the active sub accounts.

Sum percent – the sum of percent parameter for the active sub accounts (this parameter should be 100%).

Balance – total balance of all the sub accounts (both active and inactive).

Currency – the deposit currency of the master account.

Accounts – total number of sub accounts.

Active – number of active sub accounts. 6

Active Balance – current balance of the master account (should be equal to the sum of balances of active sub accounts₁).

₁ To fix the balance of the master account it is required to Activate/Deactivate one of the sub accounts.

Active Equity – current equity of the master account.

Active Margin – current margin of the master account.

Allocation methods

At the heart of MAM is the ability for the trader or Managed Funds Manager to allocate the trades by individual sub account lots, percentage or proportional allocation to suit the overall structure to their trading or fund management style. Alongside the allocation method is the allocation parameters for quick and efficient implementation.

Lot Allocation

This allocation method is used to divide volume of the master trade to the sub accounts according to the set Lot parameter of the sub accounts. Lot Allocation allows trading with variable lot sizes on the master account. The allocation to the sub accounts will be proportional to the set lot sizes provided for each of them.



When using Lot Allocation make sure to set Lot parameter of at least one of the active sub accounts greater than zero.

General formula of Lot Allocation method is this: Σ

Where:

– *volume of the master trade*

– *Lot parameter of the i_{th} sub account*

Σ – *sum of Lot parameters of all active sub accounts*

– *volume of the sub trade*

For example, consider there are two active sub accounts with Lot parameter set as 2 and 3 lots respectively.

<input checked="" type="checkbox"/>	630240	Sub_7	subgroup_5	2	0	0	1 035,01 € 0,00 €	1 035,01 € 0
<input checked="" type="checkbox"/>	630241	Sub_8	subgroup_5	3	0	0	2 701,88 € 0,00 €	2 701,88 € 0

If master account opens 10 lots then the volume of the sub orders is calculated as follows:

Sub Orders:													
order	login	symbol	comment	command	volume	open time	open price	sl	tp	commiss	agent	swap	profit
198912	630240	USDJPY		buy	4	5/16/2011 8:09:25	80,78	0	0	0,00 €	0,00 €	0,00 €	-34,89 €
198912	630241	USDJPY		buy	6	5/16/2011 8:09:25	80,78	0	0	0,00 €	0,00 €	0,00 €	-52,33 €

The volume of the first sub account is $2/5 * 10 = 4 \text{ lots}$

The volume of the second sub account is $3/5 * 10 = 6 \text{ lots}$

Percent Allocation

This allocation method is used to divide volume of the master trade to the sub accounts according to the set Percent (%) parameter of the sub accounts. The allocation to the sub accounts will be calculated as a percentage of the master trade volume.

When using Percent Allocation the sum of Percent (%) parameter of all the active sub accounts must be 100%.

For example, consider there are two active sub accounts with Lot parameter set as 30% and 70% respectively.

<input checked="" type="checkbox"/>	630240	Sub_7	subgroup_5	0	30	0	10 965,27	0,00 €	10 965,27	0
<input checked="" type="checkbox"/>	630241	Sub_8	subgroup_5	0	70	0	12 597,27	0,00 €	12 597,27	0

If master account opens 10 lots then the volume of the sub orders is calculated as follows:

Sub Orders:													
order	login	symbol	comment	command	volume	open time	open price	sl	tp	commiss	agent	swap	profit
198913	630240	USDJPY		buy	3	5/16/2011 8:38:07	80,78	0	0	0,00 €	0,00 €	0,00 €	-52,31 €
198913	630241	USDJPY		buy	7	5/16/2011 8:38:07	80,78	0	0	0,00 €	0,00 €	0,00 €	-122,04 €

The volume of the first sub account is $30\%/100\% * 10 = 3 \text{ lots}$

The volume of the second sub account is $70\%/100\% * 10 = 7 \text{ lots}$

Proportional by Balance Allocation

This allocation method is calculating proportion of the master trade volume according to the balances of the sub accounts. This method doesn't require additional settings. The fraction of the master trade volume is calculated automatically.

For example, consider there are two active sub accounts with balances of 10,000 and 6,000 respectively.

<input checked="" type="checkbox"/>	630240	Sub_7	subgroup_5	0	0	0	10 000,00	0,00 €	10 000,00	0
<input checked="" type="checkbox"/>	630241	Sub_8	subgroup_5	0	0	0	6 000,00	0,00 €	6 000,00	0

If master account opens 10 lots then the volume of the sub orders is calculated as follows:

Sub Orders:													
order	login	symbol	comment	command	volume	open time	open price	sl	tp	commiss	agent	swap	profit
198914	630240	USDJPY		buy	6.3	5/16/2011 9:34:38	80.8	0	0	0,00 €	0,00 €	0,00 €	-109,90
198914	630241	USDJPY		buy	3.7	5/16/2011 9:34:38	80.8	0	0	0,00 €	0,00 €	0,00 €	-64,54 €

The volume of the first sub account is $6,000/16,000 * 10 = 3.75 \text{ lots}$

The volume of the second sub account is $10,000/16,000 * 10 = 6.25 \text{ lots}$

The volume of the sub accounts is rounded according to the lot step. For example, if lot step is 0.1 lot then the sub accounts will be allocated **6.3 and 3.7 lots** respectively.

Proportional by Equity Allocation

This allocation method is similar to the Proportional by Balance in a way that proportion is calculated automatically. The difference is that Equity is used instead of Balance. This method doesn't require additional settings. The fraction of the master trade volume is calculated automatically.

Equity Percent Allocation

Equity Percentage allocation is used when the user requires allocating to sub accounts on a percentage basis of each individual sub account. The idea of this allocation method is to make it possible to define the risk for each individual sub account. For example, if the risk percentage of the sub account is set to 30% it means that 30% of the sub account equity will be traded at any time. The volume traded on the master account is calculated as a sum of volumes of the sub accounts.

This allocation method is using Percent (%) parameter of the sub accounts to define the percentage of the sub account equity which will be traded in every trade.

When using Equity Percent Allocation the volume of the master trade is changed to reflect the sum of volumes of the sub trades. No matter what volume is put in the initial trade request the volume of the opened trade will be different.

For example, consider there are two active sub accounts with Percent(%) parameter set to 10% and 20% respectively.

<input checked="" type="checkbox"/>	630240	Sub_7	subgroup_5	0	10	0	10 000,00 €	0,00 €	10 000,00 €	0
<input checked="" type="checkbox"/>	630241	Sub_8	subgroup_5	0	20	0	6 000,00 €	0,00 €	6 000,00 €	0

Then the sub orders will be opened with the volumes as follows

Sub Orders:													
order	login	symbol	comment	command	volume	open time	open price	sl	tp	commiss	agent	swap	profit
198915	630240	USDJPY		buy	1,4	16.05.2011 22:11	80,74	0	0	0,00 €	0,00 €	0,00 €	-36,66 €
198916	630241	USDJPY		buy	1,7	16.05.2011 22:11	80,74	0	0	0,00 €	0,00 €	0,00 €	-44,51 €

And the master trade volume will be calculated as the sum of sub trade volumes

Master Orders:													
order	login	symbol	comment	command	volume	open time	open price	sl	tp	commiss	agent	swap	profit
198915	630198	USDJPY		buy	3,1	16.05.2011 22:11	80,74	0	0	0,00 €	0,00 €	0,00 €	-54,10

Allocation by Equal Risk

Allocation by Equal Risk is introduced to address the problem of margin control on the sub accounts. Sometimes the sub accounts are stopped out because of the low margin level. No other allocation method is taking into consideration the margin level of the individual sub accounts. But with the Allocation by Equal Risk it is possible to set minimal Margin % level for each of the sub accounts. If the minimal Margin % limit is reached there will be no allocation to such sub account.

For example, consider there are two active sub accounts with one opened trade on the master account. This trade is allocated to the sub accounts and current margin level of the sub accounts is significantly different (1008.16% on the first sub account and 498.79% on the second sub account).

active	login	name	group	lot	%	trades	balance	margin	equity	margin %
<input checked="" type="checkbox"/>	630240	Sub_7	subgroup_5	0	100	1	9 940,65 €	986,02 €	9 940,65 €	1008,16
<input checked="" type="checkbox"/>	630241	Sub_8	subgroup_5	0	100	1	5 972,07 €	1 197,31 €	5 972,07 €	498,79

If we leave it as that then there is a possibility that one of the sub accounts can reach margin call level earlier. Now if we switch to the Allocation by Equal Risk and open another position on the master account this volume will be redistributed to the sub accounts so that to make their Margin % as much the same as possible. So for example, we open 10 lots on the master account.

Master Orders:													
order	login	symbol	comment	command	volume	open time	open price	sl	tp	commissio	agent	swap	profit
1989158	630198	USDJPY		buy	3,1	16.05.2011 22:11:26	80,74	0	0	0,00 €	0,00 €	0,00 €	27,04 €
1989164	630198	USDJPY		buy	10	16.05.2011 22:32:47	80,74	0	0	0,00 €	0,00 €	0,00 €	87,25 €

On the sub accounts we can see this distribution of volumes

Sub Orders:													
order	login	symbol	comment	command	volume	open time	open price	sl	tp	commissio	agent	swap	profit
1989165	630240	USDJPY		buy	6,8	16.05.2011 22:32:47	80,74	0	0	0,00 €	0,00 €	0,00 €	59,35 €
1989166	630241	USDJPY		buy	3,2	16.05.2011 22:32:47	80,74	0	0	0,00 €	0,00 €	0,00 €	27,93 €

And now we can see that the new margin % of the sub accounts is almost the same.

active	login	name	group	lot	%	trades	balance	margin	equity	margin %
<input checked="" type="checkbox"/>	630240	Sub_7	subgroup_5	0	100	2	9 940,65 €	5 777,28 €	9 869,09 €	170,83
<input checked="" type="checkbox"/>	630241	Sub_8	subgroup_5	0	100	2	5 972,07 €	3 452,02 €	5 929,32 €	171,76

This is still more than 100% (which is set by the Percent(%) parameter). If the margin % was less than 100 then the trade could not be opened on the sub account thus preventing it from the risk of margin call.

Lot Multiplier Allocation

This allocation method is used to copy trades from the master account to the sub accounts. This is simple implementation of the trade copier. The Lot parameter of the sub account is used as a multiplier factor for the master trade. The volume of the master trade remains unchanged.

When using the Lot Multiplier Allocation method the volume of the master trade will always be different from the sum of volumes of the sub trades.

For example, consider there are two active sub accounts with set Lot parameter of 1.3 and 2.5 respectively.

active	login	name	group	lot	%	trades	balance	margin	equity	margin %
<input checked="" type="checkbox"/>	630240	Sub_7	subgroup_5	1,3	0	0	9 965,11 €	0,00 €	9 965,11 €	0
<input checked="" type="checkbox"/>	630241	Sub_8	subgroup_5	2,5	0	0	6 001,78 €	0,00 €	6 001,78 €	0

If master account opens 1 lot then the volume of the sub orders is calculated as follows:

Sub Orders:													
order	login	symbol	comment	command	volume	open time	open price	sl	tp	commissio	agent	swap	profit
1989180	630240	USDJPY		buy	1,3	16.05.2011 23:09:05	80,76	0	0	0,00 €	0,00 €	0,00 €	-22,72 €
1989181	630241	USDJPY		buy	2,5	16.05.2011 23:09:05	80,76	0	0	0,00 €	0,00 €	0,00 €	-43,68 €

The volume of the first sub account is $1.3 * 1 = 1.3 \text{ lots}$

The volume of the second sub account is $2.5 * 1 = 2.5 \text{ lots}$

The master trade volume remains 1 lot.

Lot Multiplier with Volume Fix

This allocation method is used to copy trades from the master account to the sub accounts. This allocation is much similar to the Lot Multiplier allocation. The Lot parameter of the sub account is used as a multiplier factor for the master trade. But the only difference is that the volume of the master trade is changed to reflect the sum of volumes of the sub accounts.

When using the Lot Multiplier with Volume Fix method the volume of the master trade will be different from the trade request volume. The volume will reflect the sum of volumes of the sub trades.

Percent Allocation by P/L

This is one of the two allocation methods by profit/loss. The allocation by P/L is made without opening positions on the sub accounts. But when the master position is closed the allocation to the sub accounts is made with deposit/withdrawal transaction. The allocation methods by P/L are more precise in general. Their precision is always one cent regardless of the minimal volume settings. These methods are also working differently with the allocation parameters. The allocation parameters are read and allocations are calculated when the trade is closed on the master account.

Percent Allocation by P/L is used when the user requires allocation to the sub accounts on a percentage basis according to the set Percent(%) parameter similar to the Percent Allocation method.

Switching from P/L based allocation method to the volume based allocation method is restricted if there are opened trades on the master account.

Proportional Allocation by P/L

The allocation method is similar to the Percent Allocation by P/L in a way that no trades are opened on the sub accounts. The deposit/withdrawal is made to the sub accounts when master trade is closed.

Proportional Allocation by P/L is used when the user requires allocating to sub accounts proportionally to their balances (see Proportional by Balance Allocation for more details). 14

Master Orders

This tab displays the master orders and the sub orders. When master order is selected the list of sub orders is shown for it.

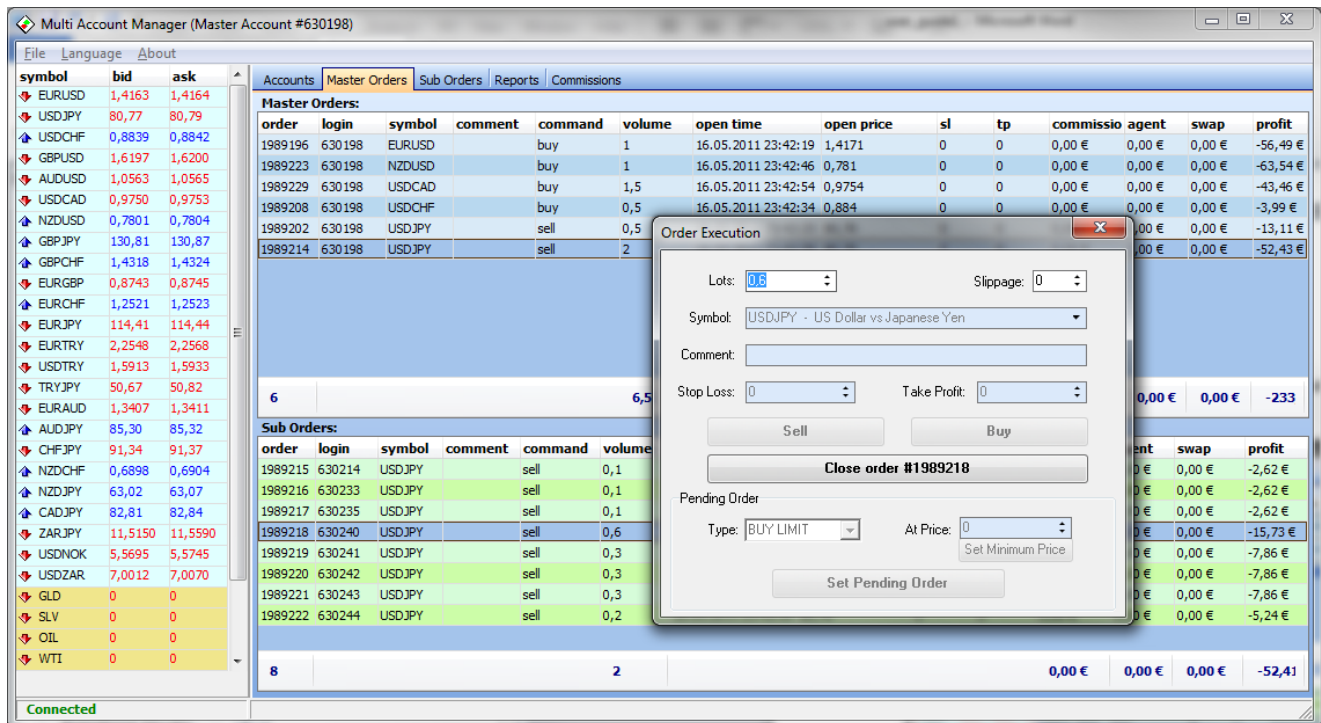
symbol	bid	ask
EURUSD	1,4162	1,4163
USDJPY	80,78	80,80
USDCHF	0,8840	0,8843
GBPUSD	1,6196	1,6199
AUDUSD	1,0564	1,0566
USDCAD	0,9747	0,9750
NZDUSD	0,7806	0,7809
GBPJPY	130,83	130,89
GBPCHF	1,4318	1,4324
EURGBP	0,8743	0,8745
EURCHF	1,2521	1,2523
EURJPY	114,41	114,44
EURTRY	2,2546	2,2566
USDTRY	1,5913	1,5933
TRYJPY	50,67	50,82
EURAUD	1,3405	1,3407
AUDJPY	85,32	85,35
CHFJPY	91,35	91,37
NZDCHF	0,6900	0,6907
NZDJPY	63,05	63,11
CADJPY	82,84	82,87
ZARJPY	11,5150	11,5600
USDNOK	5,5714	5,5764
USDZAR	7,0005	7,0070
GLD	0	0
SLV	0	0
OIL	0	0
WTI	0	0

order	login	symbol	comment	command	volume	open time	open price	sl	tp	commissio	agent	swap	profit	
1989196	630198	EURUSD		buy	1	16.05.2011 23:42:19	1,4171	0	0	0,00 €	0,00 €	0,00 €	-63,55 €	
1989223	630198	NZDUSD		buy	1	16.05.2011 23:42:46	0,781	0	0	0,00 €	0,00 €	0,00 €	-28,25 €	
1989229	630198	USDCAD		buy	1,5	16.05.2011 23:42:54	0,9754	0	0	0,00 €	0,00 €	0,00 €	-76,07 €	
1989208	630198	USDCHF		buy	0,5	16.05.2011 23:42:34	0,884	0	0	0,00 €	0,00 €	0,00 €	0,00 €	
1989202	630198	USDJPY		sell	0,5	16.05.2011 23:42:25	80,76	0	0	0,00 €	0,00 €	0,00 €	-17,47 €	
1989214	630198	USDJPY		sell	2	16.05.2011 23:42:39	80,76	0	0	0,00 €	0,00 €	0,00 €	-69,91 €	
6														
					6,5						0,00 €	0,00 €	0,00 €	-255

order	login	symbol	comment	command	volume	open time	open price	sl	tp	commissio	agent	swap	profit	
1989215	630214	USDJPY		sell	0,1	16.05.2011 23:42:39	80,76	0	0	0,00 €	0,00 €	0,00 €	-3,50 €	
1989216	630233	USDJPY		sell	0,1	16.05.2011 23:42:39	80,76	0	0	0,00 €	0,00 €	0,00 €	-3,50 €	
1989217	630235	USDJPY		sell	0,1	16.05.2011 23:42:39	80,76	0	0	0,00 €	0,00 €	0,00 €	-3,50 €	
1989218	630240	USDJPY		sell	0,6	16.05.2011 23:42:39	80,76	0	0	0,00 €	0,00 €	0,00 €	-20,97 €	
1989219	630241	USDJPY		sell	0,3	16.05.2011 23:42:39	80,76	0	0	0,00 €	0,00 €	0,00 €	-10,49 €	
1989220	630242	USDJPY		sell	0,3	16.05.2011 23:42:39	80,76	0	0	0,00 €	0,00 €	0,00 €	-10,49 €	
1989221	630243	USDJPY		sell	0,3	16.05.2011 23:42:39	80,76	0	0	0,00 €	0,00 €	0,00 €	-10,49 €	
1989222	630244	USDJPY		sell	0,2	16.05.2011 23:42:39	80,76	0	0	0,00 €	0,00 €	0,00 €	-6,99 €	
8														
					2						0,00 €	0,00 €	0,00 €	-69,91 €

Each individual sub order can be closed by the MAM Client application². Whenever the sub order is closed the master order is closed partially by the volume of the closed sub order. To close the sub order it is required to double click on it. The Order Execution window will be opened. Then press Close Order button.

² If broker enables closing of the sub orders with the MAM Client application



The master trades can be closed the same way. Double click on the master order to open Order Execution window and close the master order.

Sub orders cannot be closed partially. Master orders can be closed partially.

Trades can also be opened on the master account from the MAM Client application if broker permits this option. To open new trade on the master account from MAM Client application double click on the Symbol from the market watch window. The Order Execution window will be opened. Set all required parameters of the trade in the Order Execution window and press Buy/Sell button.

Sub Orders

The sub orders tab is used to track all the sub orders. Sometimes there can be unallocated trades on the sub accounts (due to that the sub accounts were trading separately from the master account for example). This screen is showing all the trades on the sub accounts regardless of their allocation status. The sub orders table allows flexible visualization mechanism by means of columns grouping. Grouping can be made by any column. By default the grouping is made by master order. When expanding the grouped row the sub orders will be shown for particular master order.

The screenshot shows the 'Multi Account Manager' application window. The main area displays a table of sub-orders under the 'Sub Orders' tab. The table has columns for order ID, login, symbol, comment, command, volume, open time, open price, sl, tp, commission, agent, swap, and profit. The data is grouped by master order ID. A summary row at the bottom shows a total of 36 orders with a volume of 6,5 and a profit of -216.

order	login	symbol	comment	command	volume	open time	open price	sl	tp	commission	agent	swap	profit	
master order : 1989196 (Total: 5, Volume: 1)														
master order : 1989202 (Total: 5, Volume: 0,5)														
1989203	630240	USDJPY		sell	0,1	16.05.2011 23:42:25	80,76	0	0	0,00 €	0,00 €	0,00 €	-2,62 €	
1989204	630241	USDJPY		sell	0,1	16.05.2011 23:42:25	80,76	0	0	0,00 €	0,00 €	0,00 €	-2,62 €	
1989205	630242	USDJPY		sell	0,1	16.05.2011 23:42:25	80,76	0	0	0,00 €	0,00 €	0,00 €	-2,62 €	
1989206	630243	USDJPY		sell	0,1	16.05.2011 23:42:25	80,76	0	0	0,00 €	0,00 €	0,00 €	-2,62 €	
1989207	630244	USDJPY		sell	0,1	16.05.2011 23:42:25	80,76	0	0	0,00 €	0,00 €	0,00 €	-2,62 €	
master order : 1989208 (Total: 5, Volume: 0,5)														
master order : 1989214 (Total: 8, Volume: 2)														
1989215	630214	USDJPY		sell	0,1	16.05.2011 23:42:39	80,76	0	0	0,00 €	0,00 €	0,00 €	-2,62 €	
1989216	630233	USDJPY		sell	0,1	16.05.2011 23:42:39	80,76	0	0	0,00 €	0,00 €	0,00 €	-2,62 €	
1989217	630235	USDJPY		sell	0,1	16.05.2011 23:42:39	80,76	0	0	0,00 €	0,00 €	0,00 €	-2,62 €	
1989218	630240	USDJPY		sell	0,6	16.05.2011 23:42:39	80,76	0	0	0,00 €	0,00 €	0,00 €	-15,73 €	
1989219	630241	USDJPY		sell	0,3	16.05.2011 23:42:39	80,76	0	0	0,00 €	0,00 €	0,00 €	-7,87 €	
1989220	630242	USDJPY		sell	0,3	16.05.2011 23:42:39	80,76	0	0	0,00 €	0,00 €	0,00 €	-7,87 €	
1989221	630243	USDJPY		sell	0,3	16.05.2011 23:42:39	80,76	0	0	0,00 €	0,00 €	0,00 €	-7,87 €	
1989222	630244	USDJPY		sell	0,2	16.05.2011 23:42:39	80,76	0	0	0,00 €	0,00 €	0,00 €	-5,24 €	
master order : 1989223 (Total: 5, Volume: 1)														
master order : 1989229 (Total: 8, Volume: 1,5)														
Total: 36					6,5						0,00 €	0,00	0,00 €	-216,

To export sub orders to excel select the sub orders and then right click on the sub orders table. Use Export Sub Orders option from the popup menu.