

Guidance Note

Released:

23 August 2023

Version: 3.1

Key concepts

Matching algorithm examples

Related information

FGL Operating Rules 9.6.1

FGL Product Determinations

Recommended Audience

Managing Directors

Directors

Compliance Managers

Operations Managers

Previous Issues:

Nil

GN 22 – Matching Algorithm, Examples

Introduction

The purpose of this Guidance Note is to assist Trading Participants in their understanding of how the FGL price/time matching algorithm functions.

Guidance

Following are two worked examples to illustrate how the FGL matching algorithm works.

Price/time Algorithm

Example 1

The current market in a particular Individual FGL Product is displayed in the following orderbook:

Order Number	Time Entered	Buy Quantity	Buy Price	Sell Price	Sell Quantity	Time Entered
1				94.51	100	11:15:01
3	11:25:05	50	94.50			
4	11:25:10	25	94.50			
2	11:20:00	5	94.49			

If an Order to sell is entered into the orderbook above at the price of 94.50 for 10 lots, the following allocation under the price/time matching algorithm will occur:

Order#	Price/Time	Total Matched
3	10	10
4	0	0
Total	10 lots	10 lots

- Order #3 will be partially matched for 10 lots @ 94.50.
- No other Order will receive any allocation leaving the orderbook as below:

Security Level public Page 1 of 2



Order Number	Time Entered	Buy Quantity	Buy Price	Sell Price	Sell Quantity	Time Entered
1				94.51	100	11:15:01
3	11:25:05	40	94.50			
4	11:25:10	25	94.50			
2	11:20:00	5	94.49			

Example 2

If an additional Order to sell is entered into the orderbook remaining at the end of Example 1 above at the price of 94.50 for 50 lots, the following allocation under the price/time matching algorithm will occur:

Order#	Price/Time	Total Matched
3	40	40
4	10	10
Total	50 lots	50 lots

- Order #3 will first be fully matched for the remaining 40 lots @ 94.50.
- Order #4 will then be partially matched for 10 lots @ 94.50

The orderbook after Trade matching is:

Order Number	Time Entered	Buy Quantity	Buy Price	Sell Price	Sell Quantity	Time Entered
1				94.51	100	11:15:01
4	11:25:10	15	94.50			
2	11:20:00	5	94.49			

This document provides information only and may be subject to change without notice. No responsibility is accepted for any inaccuracies contained in the matters published. FEX Global Pty Limited (ACN 124 127 224) (FGL) and its related bodies corporate (FEX Group) make no representation or warranty with respect to the ongoing accuracy, reliability or completeness of this information. To the maximum extent permitted by law, FEX Group and its employees, officers and contractors shall not be held liable for any loss or damage arising in any way, including by way of negligence, in connection with this information.