



Brokers' Operational Guide

ASEAN Link

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| ASEAN Link | Version: <1.1> |
| Broker's Operational Guide | Date Last Update: <11-Sep-12> |

Revision History

| Date | Version | Description | Author |
|-------------|----------------|--|---------------|
| 30 May 2012 | 0.9 | 1 st draft | Goh Leng Leng |
| 30 May 2012 | 1.0 | Make minor changes on file transfer to make it clearer | Jean Francois |
| 28 Aug 2012 | 1.0 | Cosmetic changes only | Goh Leng Leng |
| 4 Sep 2012 | 1.0 | Updated the launch date | Goh Leng Leng |
| 11 Sep 2012 | 1.1 | Updated the File Transfer FileName | Koh Pai Pai |
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1 Introduction

1.1 Background

ASEAN Trading Link is a technology infrastructure provided by the participating ASEAN Exchanges which allows investors from one market to trade securities listed in another market.

The ASEAN Link will be rolled out progressively. The first stage will see the launch of ASEAN Link between Singapore Exchange(SGX) and Bursa Malaysia(BMB) in Sep 2012, thereafter with Stock Exchange of Thailand(SET) in Oct 2012.

The participation dates of the other ASEAN Exchanges collaboration members, namely, Hanoi Stock Exchange (HSE), HoChiMinh Stock Exchange (HOSE), Indonesia Stock Exchange (IDX) and The Philippines Stock Exchange(PSE) will be announced at a future date.

1.2 Objective

The objective of this document is to provide the Malaysian brokers an operational guide for operating the ASEAN Link. This guide is applicable for both Sponsoring and Originating brokers which participate in ASEAN Link.

1.3 Definitions

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|------------------------------|---|
| Participating Exchanges | SGX, BMB and SET for the 1 st and 2 nd stages and HSE, HOSE, IDX, PSE at a later stage. |
| Originating Broker (OB) | Broker sending orders to execute in any of the other Participating Exchanges. |
| Sponsoring Broker (SB) | Broker sponsoring the trades of the Originating Broker. |
| Originating Exchange (OE) | The exchange where Originating Broker is a member |
| Executing Exchange (EE) | The exchange where orders are executed |
| Valdi Selector Manager (VSM) | SunGard Risk Management application provided together with the ASEAN Link Solution |
| Valdi Trader (VT) | SunGard OMS application provided for the first 18 months of the ASEAN Link solution on a complimentary basis |
| SunGard Global Trading (SGT) | Vendor providing the ASEAN Link solution. |

1.4 Targeted audience

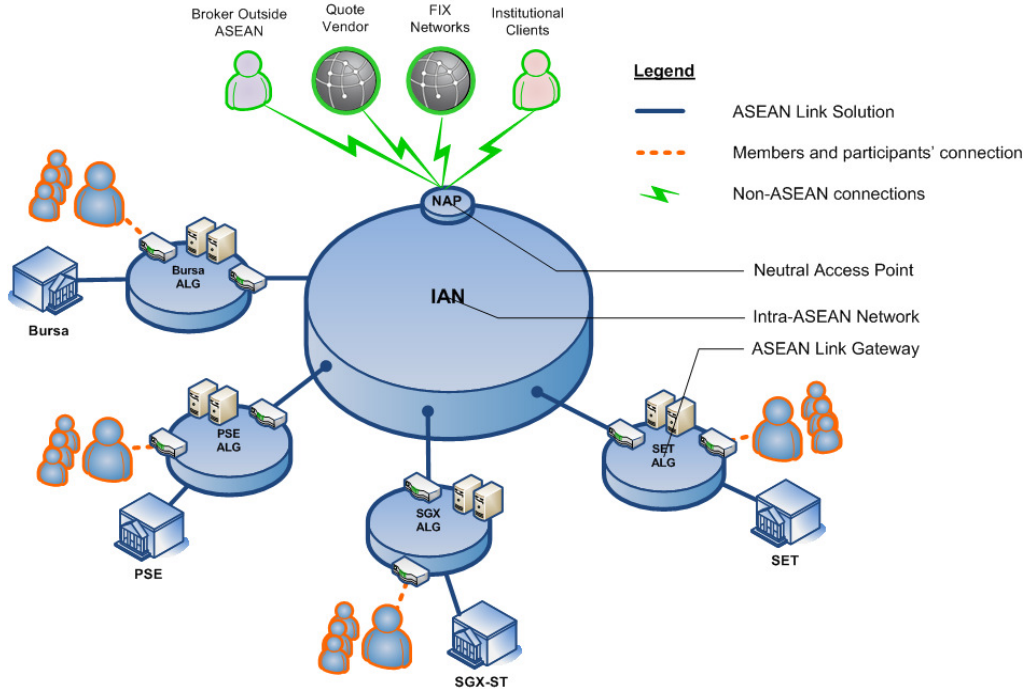
| | |
|-----------|---|
| Brokers | Both Originating and Sponsoring Brokers from Malaysia |
| Exchanges | Participating Exchanges |
| SunGard | Vendor providing the ASEAN Trading Link solution |

2 Overview of ASEAN Link Solution

The following diagram provides an overview of the ASEAN Link architecture. There will be a gateway (ASEAN Link Gateway – ALG) located at each participating exchange for local

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members to connect and trade in the ASEAN Link. Additionally, there will also be a neutral access point (NAP) for non-ASEAN members and clients to connect and trade into ASEAN.



The key features of the ASEAN link solution includes:

- Routing of orders within the participating Exchanges
- Dissemination of aggregated market data of the participating Exchanges
- Management of pre-trade risk for both the OB and SB

3 File Transfer

File transfer between the brokers and ALG will be done via existing eFIX facility (please refer to the Appendix on how to send file to Bursa via eFIX). The following files will be available via ASEAN Link:

- Trade Export File – there will be two trade export files, one for OB and one for SB. The file for OB will consist of all the trade done by you as an OB and the file for SB will consist of all the trades done by your overseas' OBs. The details of the file is available in the ASEANLink_ExportLayout File Specification.
- Risk Import Files – these are the files to be uploaded by you either as OB or SB. It is only required if you wish to upload the risk parameters via file. There are 3 types of risk import/management files, the PMO/order, Capital and Instrument filter files. The details of the files are available in the ASEANLink_RiskImport File Specification.

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3.1 File Name and Transfer Timing

| File | File Name | Time the file will/should be available (Malaysian Time) |
|---|---|---|
| <u>Files to be sent to the brokers at the end of the day</u> | | |
| Trade Export file for OB | Serveur_XXXXorig_YYYYMMDD.txt | Once at 17:30 and once at 18:30 |
| Trade Export file for SB | Serveur_XXXXexec_YYYYMMDD.txt | Once at 17:30 and once at 20:30 |
| <u>Files from brokers (for uploading to Valdi Selector Manager) – these files are optional</u> | | |
| Risk Management import - Capital | ASEAN. ¹ ZZZ.301. ² EEE.capital_XXXXorigEEE_ ³ YYYYMMDD.slr ASEAN.ZZZ.300.EEE.capital_XXXXexec_YYYYMMDD.slr | SGT will upload the file to Valdi Selector Manager once at 7:30 and once at 8:00 (in case the broker was unable to send the file by 7:30; this should be an exception, not the norm). |
| Risk Management import – instrument filters | ASEAN.ZZZ.301.EEE.instrfilter_ ⁴ XXXXorigEEE_YYYYMMDD.slr ASEAN.ZZZ.300.EEE.instrfilter_XXXXexec_YYYYMMDD.slr | |
| Risk Management import – order filter | ASEAN.ZZZ.301.EEE.pmo_XXXXorigEE_YYYYMMDD.slr ASEAN.ZZZ.300.EEE.pmo_XXXXexec_YYYYMMDD.slr | Any files sent to Exchange before the above time will be uploaded. The name of the file must have the date you want the file to be uploaded. Note: Filename is case sensitive |

¹ Sender Broker Code

² Executing Exchange

³ The date is added on all files to ensure the files of various days can be differentiated. Also, in case a file cannot be transferred, the file from the previous day will not be used by mistake. For risk import files, the data should be the one of the trading day the file should apply (in case the file is uploaded by the broker the night before, the date should be the one of the next day).

⁴ Broker short name as set out in the Valdi Selector Manager

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4 Issues Escalation Process and Guideline

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|--|--|
| Issues related to network or Valdi Trader | Contact the Originating Exchange Service/Help Desk |
| Issues related to trading functions | Contact the Executing Exchange Service/Help Desk |
| Issues related to Valdi Selector Manager or any other issues | Contact SunGard helpdesk |

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|----------------|----------------|-----------------------------------|
| SGX | +65-6236-8400 | |
| BMB | +603-2026 5099 | customerservice@bursamalaysia.com |
| SunGard | +65 6308 8222 | GLT.SIN.ServiceDesk@sungard.com |

5 Password policy for Valdi Trader and Valdi Selector Manager

- a) Change of password mandatory at expiry
- b) Password will be initially expired. When you are given the ID during on-boarding, system will prompt for you to change password.
- c) Password expires after 90 days.
- d) The new password must be at least 10 characters
- e) The new password must be different from last 10
- f) At least 1 digit
- g) At least one letter (lower or upper case)
- h) At least one special character [\$@#!?'()*/*/:;<=>^_-'~.,] (excluding the square brackets)

If you start the gllauncher again, you should be prompted with the change password option again.

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6 Appendix

Agent Sending eFix Files to Bursa

To send a file to Bursa, agent needs to place the file in the following folder:

C:\Bursa\Outgoing

Refer table below for more detail of folder locations for sending and receiving eFix files.

Transfer files via Paymate v8 Agent with the folder structure setting as highlighted in **BOLD** as shown below:

| # | Paymate Working Folder | Paymate v8.0 Agent Default Folder | Paymate v8.0 Agent Folder After Cutover |
|---|---------------------------|---|---|
| 1 | Normal Outbox (Drop file) | <i>C:\Paymate\Agent_File\Outbox\Default</i> | C:\Bursa\Outgoing |
| 2 | Adhoc Outbox (Drop file) | <i>C:\Paymate\Agent_File\Outbox\Adhoc</i> | C:\Bursa\Adhoc_Outgoing |
| 3 | Archive | <i>C:\Paymate\Agent_File\Archive</i> | C:\Bursa\Archive |
| 4 | Recovery | <i>C:\Paymate\Agent_File\Recovery</i> | C:\Bursa\Recovery |
| 5 | Inbox (Collect file) | <i>C:\Paymate\Agent_File\Inbox</i> | C:\Bursa\Output |