BSE Limited.

Introduction to IML

Trading Operations

TABLE OF CONTENTS

1.1. ABOUT IML 3
1.2. How does IML works. 4
1.3. Types of Application Empanelment 4
1.4. Procedure to Subscribe to IML 5

1.1. About IML

Intermediate Message Layer (IML) is the interface between Central Trading Engine and third party software (TPS).

IML enables the Trading Application to interact with BSE using a set of messages defined in the Open Message Bus Document (OMB), commonly referred to as API. The machine on which the IML is configured is commonly knows as the IML Server

Following is a diagram of IML and other related BSE systems

Given the need to integrate the customised order routing software with content and other analytical features developed by a Member/ Vendor with BSE Trading platform, BSE has opened up its trading system interface for facilitating the same. Members with the help of IML can now develop their own trading front ends and interface with the Exchange through the IML.

For the above purpose, members can empanel their Application, either developed by the in-house team or developed through a Third Party Vendor.

IML is primarily used for routing orders through the Trading Application or through Internet (ITORS). IML can also be used for Back office integration.

It may please be noted that IML has to be used primarily for Trading Purposes.

1.2. How does IML works.

IML interfaces with CTE in a reliable and secure manner. IML also routes point-to-point messages between multiple TPS connections to the CTE.

Listed below are some basic features of IML

1. IML works on TCP/IP and UDP/IP sockets provided by Windows Platform.
2. IML works or request reply mechanism.
3. Messages send across from CTE to TPS is always encrypted for security purposes.
4. IML provides trade and order book for reconciliation for members
5. IML provides Market Picture Broadcast.

1.3. Types of Application Empanelment

BSE gives its trading members the option to choose from various front-end software available in the market by BSE empanelled vendors or trading members can develop their own trading solution.

The usage of IML is subject to terms and condition as laid down by BSE from time to time. The users desirous to avail the IML facility are required to apply for "Application Empanelment"

Application Empanelment can be done with BSE under two categories as defined by the Exchange

1.3.1. Self Use (Trading Purpose)

Self use is for trading member who wants to develop Trading Application that would be used solely by the trading members.

Fee structure for Application Empanelment for Self Use

Application Empanelment	Charges
Registration Fees	Rs 1,50,000+ Service Tax
Recurring Annual Service Contract for IML	Rs. 50,000+ Service Tax

Note: - Service Tax charges are applicable as per Government Norms

The Cheque is to be drawn in favour of "BSE Limited".

TDS can be deducted on the above amount. In this case please provide a break-up of deduction done or otherwise the TDS certificate issued.

1.3.2. Reselling (Vendors who wish to give their software to members to use)

This covers mainly the trading software that is offered to the trading members as ready solutions, mainly used by vendors who are Empanelled Vendors with BSE.

Fee structure to become an Empanelled Vendor

Empanelled Vendor	Charges
Registration Fees	Rs. 10,00,000 + Service Tax
Recurring Annual Service Contract for IML	Rs. 2,50,000 + Service Tax

Note: - Service Tax charges are applicable as per Government Norms

The Cheque is to be drawn in favour of "BSE Limited".

TDS can be deducted on the above amount. In this case please provide a break-up of deduction done or otherwise the TDS certificate issued.

1.4. Procedure to Subscribe to IML

Please contact the undersigned for document purposes for both the categories, and if you may have any queries regarding Application Empanelment

Mr. Sridhar Menon
Email: - sridhar.menon@bseindia.com
Tel: - 022-22728887