



BOLSA MEXICANA DE VALORES



Bursatec.

Co-Location General Policies

1.3 version

Co-Location	Version: 1.3
General policies	Starting date: July-21-2009
DETAILED (TECHNICAL) GUIDE OF CO-LOCATION 24-NOV-09	

VERSION CONTROL

Date	Version	Description of changes	Modified	Approved
30-06-2009	1.0	First version.	Projects office	Rodrigo Jiménez Corporate strategy coordinator Flor Reyes Deputy director of corporate strategy
14-07-2009	1.1	Sections of Chapter 2 are amended	Projects office	Hugo Martínez Deputy director of infrastructure Rodrigo Jiménez Corporate strategy coordinator Flor Reyes Deputy director of corporate strategy
20-07-2009	1.2	Observations from the Mexican Stock Exchange and MexDer are added	Projects office	Rodrigo Jiménez Corporate strategy coordinator
24-11-2009	1.3	Observations from the Mexican Stock Exchange, the Mexican Stock Exchange's Legal Department and MexDer's Legal Department are added	Office of Transnational Services, the Mexican Stock Exchange's Legal Department and MexDer's Legal Department	Lilia Romero Manager of Transnational Promotion Maxime Dulondel Specialist in Transnational Promotion Alfredo Muñoz Specialist in Transnational Promotion Nury García Mexican Stock Exchange's Legal Department Nami Hueda MexDer's Legal Department

Co-Location	Version: 1.3
General policies	Starting date: July-21-2009
DETAILED (TECHNICAL) GUIDE OF CO-LOCATION 24-NOV-09	

General Contents

Chapter 1 Introduction	5
1.1 General Information	5
Chapter 2 Co-Location characteristics	6
2.1 Co-Location advantages	6
2.2 Circuit specifications	6
2.3 Requisites	6
<i>Client requisites</i>	6
<i>Routing requisites</i>	7
<i>Restrictions</i>	7
2.4 Responsibilities of the Mexican Stock Exchange and/or MexDer through Bursatec	7
2.5 Steps to follow with KIO Networks	7
2.6 Establishing connectivity with the “Co-Location” network	8
2.7 Contacts	9

Co-Location	Version: 1.3
General policies	Starting date: July-21-2009
DETAILED (TECHNICAL) GUIDE OF CO-LOCATION 24-NOV-09	

Chapter 1 Introduction

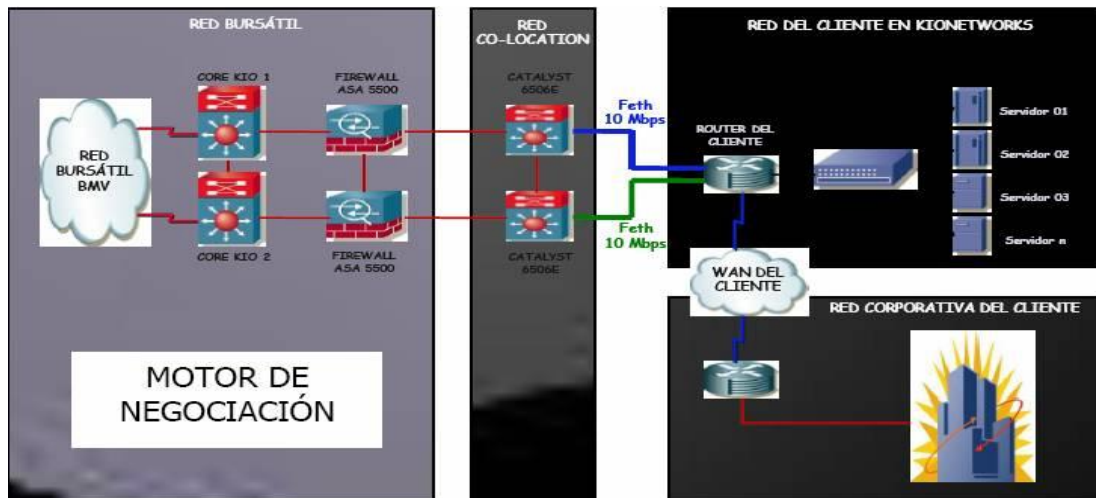
1.1 General Information

Bolsa Group (Grupo Bolsa) offers a Co-Location service that consists of giving financial institutions¹, which by their very nature have an operational relationship with the Mexican Stock Exchange and/or MexDer, access to a network of communications connected to the central Capital and/or Derivatives trading systems, as well as to market information, with a latency of less than or equivalent to 1 millisecond (ms).

For that purpose Grupo Bolsa has put into operation a Network called “Co-Location”, which permits the infrastructure of clients such as Brokerage Houses, Redistributors of Market Information or MexDer members, to be interconnected with that of the Mexican Stock Exchange and MexDer.

To ensure a latency of less than or equivalent to 1 ms, the client has to install its equipment where it operates its trading systems at the Cuajimalpa Site of the KIO Networks company (a supplier that rents out or lets space at its Computing Site), as well as the rest of the required hardware (routers, switches, servers, among others). This will allow for a redundant connection between the “Co-Location” Network and the client’s infrastructure with a latency of less than or equivalent to 1 ms.

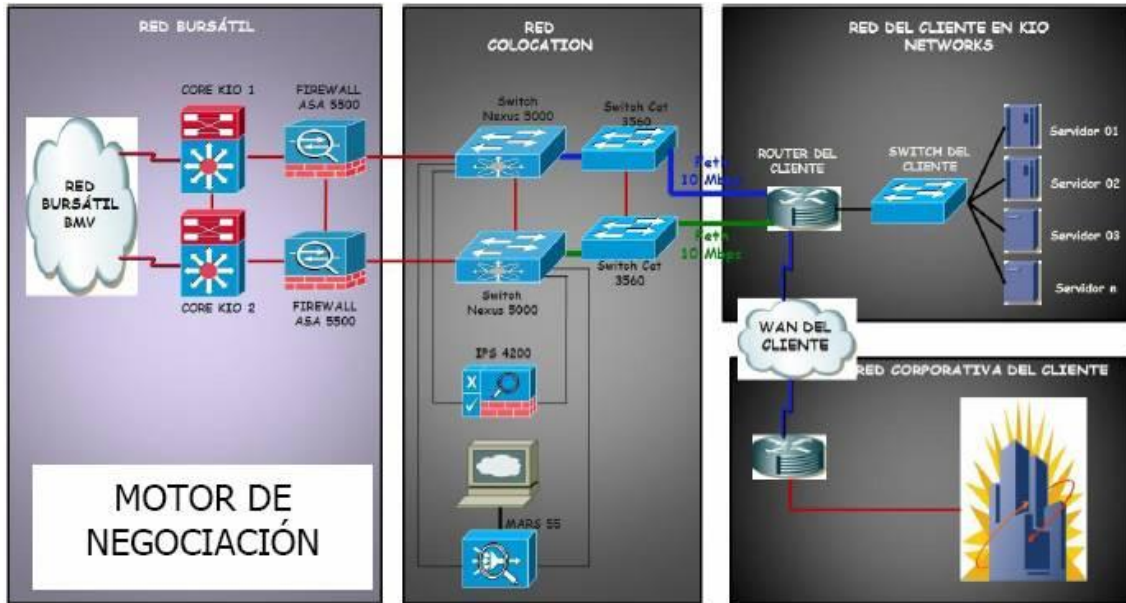
- Mexican Stock Exchange’s layout:



Co-Location	Version: 1.3
General policies	Starting date: July-21-2009
DETAILED (TECHNICAL) GUIDE OF CO-LOCATION 24-NOV-09	

- MEXDER Layout:

¹ In MexDer’s case it’s possible that the Co-Location service will be offered to an institution that is financial in character. However, said institution in all cases must participate in MexDer, either as a Clearing Member or a Trader.



Co-Location	Version: 1.3
General policies	Starting date: July-21-2009
DETAILED (TECHNICAL) GUIDE OF CO-LOCATION 24-NOV-09	

Chapter 2 Co-Location Characteristics

2.1 Co-Location Advantages

The advantages for clients contracting the service have been identified as follows:

- By having its trading systems in the “Co-Location” Network, a client has a significant advantage in that the response time is better (the latency being less than or equal to 1 ms).
- Advantage is taken of Grupo Bolsa’s trading capacity so as to obtain better economic conditions and a better service for the benefit of clients.

- The client can implement the infrastructure for “Co-Location”, based on its necessities. In other words, the client will choose the hardware, software and configuration, as long as it doesn’t stray from Bursatec’s recommendations.
- Time is set aside to allow a client to configure its infrastructure with the “Co-Location” Network and to test it. The client will receive Grupo Bolsa’s advice and support via Bursatec at all times.
- Growth opportunity and available scalability.
- Communication connection of 10 Mbps for routing orders to the Mexican Stock Exchange and/or MexDer and for receiving market information.
- 99.999% availability in the “Co-Location” Network during the markets’ hours of trading.
- Monitoring, measuring and administration of the service on behalf of the Mexican Stock Exchange and/or MexDer through Bursatec (monitoring of the Network’s port, broadband used, latency, availability and type of traffic).
- Redundant communication links between the client and the trading engines of the Mexican Stock Exchange and/or MexDer.
- The provider of the Computer Site’s services is a market leader with international standards. It complies, therefore, with the corresponding requisites, as far as the services to be provided are concerned.

2.2 Circuit Specifications

- 10,100 Mbps y 1 Gbps.
- The means of communication will be through UTP category 6A using RJ45.
- The interface should support 10/100/1000BASE-TX.
- The rack dimensions are:

51U -- 19"X8´X42" (Width X Height X Depth)
42U -- 19"x42" (Width X Depth)

Co-Location	Version: 1.3
General policies	Starting date: July-21-2009
DETAILED (TECHNICAL) GUIDE OF CO-LOCATION 24-NOV-09	

2.3 Requisites

Client Requisites

Clients should consider the following requisites:

- If rented space in KIO Networks is required, contact should be made with the supplier, mentioning Grupo Bolsa’s “Co-Location” Project. Similarly Bursatec’s executive should be notified as the executive will at all times act to facilitate matters between the client and KIO Networks.
- The use of this connectivity plan will have a monthly cost per market (Capital and Derivatives), for which a contract must be signed with the Mexican Stock Exchange and/or

MexDer (a contract for each port) in order to be able to enter the “Co-Location” Network for a compulsory period of 36 months.

- It will be the client’s responsibility to determine the number of services connected to the contracted port because, if there’s excessive use, it could mean that the 10 Mbps link is insufficient and this could affect the response time.
- The client should decide on the number and type of computing units to be installed at the KIO Networks’ Computing site.
- As an indispensable minimum, the client must provide two Routers (the Cisco 2811 Router is recommended) to receive the *Ethernet* 10/100BASE-T connection.
- The client will be responsible for the connectivity between its corporate network and its infrastructure (implemented in KIO Networks).
- The connectors between the client’s equipment and that of Grupo Bolsa should be RJ45.

Routing Requirements

Clients must be capable of using advanced protocols TCP/IP, including EIGRP. A segment of the private network administered by the Mexican Stock Exchange and/or MexDer through Bursatec will be assigned to the client.

Restrictions

The following restrictions apply for the connection to the “Co-Location” Network:

- Connecting the client’s equipment directly to Grupo Bolsa’s servers is not possible. Connectivity will be through the “Co-Location” Network.
- Forming Network frontiers with CAPA 2 communication equipment is not allowed.
- Information traffic from a public IP will not be accepted.

Co-Location	Version: 1.3
General policies	Starting date: July-21-2009
DETAILED (TECHNICAL) GUIDE OF CO-LOCATION 24-NOV-09	

- Neither Grupo Bolsa nor Bursatec staff will configure or give maintenance to the client’s equipment under any circumstances.

2.4 Mexican Stock Exchange and/or MexDer responsibilities through Bursatec

- The service will be supported by a contract in which the scope of performance will be classified by Levels of Service.
- Monitoring, measuring and management of the service, with dedicated staff delivering a monthly report to the client about the behavior identified.
- Administration of the client’s Router.

- Physical presence of qualified staff while the client's infrastructure is being connected to the "Co-Location" Network.
- Support during the implementation trial period, in accordance with a calendar of testing.

2.5 Steps to follow with KIO Networks

If rented space at the KIO Networks' computing site is required, contact should be established with the KIO Networks' executive (see section 2.7) and in the same way the Mexican Stock Exchange and/or MexDer should be notified through the executive of Bursatec, which will serve as a facilitator of the procedure. The client should take the following considerations into account prior to installing equipment.

- Send KIO Networks the characteristics of the equipment to be installed in "Co-Location's" Racks.
- Prior to installing the equipment the names of the people who will be entering KIO Networks' installations must be presented at least two working days beforehand.
- During every visit to KIO Networks related to this service the client must be accompanied by a Bursatec employee.

In all cases it's recommended that the Mexican Stock Exchange and/or MexDer through Bursatec be notified in writing so that they can assist the client in everything relating to the supplier.

2.6 Establishing connectivity with the "Co-Location" network

Process for obtaining connectivity:

1. Make contact with the Mexican Stock Exchange and/or MexDer as well as with Bursatec's Corporate Strategy area (see section 2.7).
2. Let them know the kind of plan (electronic format) to be used to interconnect with Grupo Bolsa's servers.
3. Report to them the amount of equipment (routers, switches, servers, adaptors, etc.) to be installed at KIO Networks.

Co-Location	Version: 1.3
General policies	Starting date: July-21-2009
DETAILED (TECHNICAL) GUIDE OF CO-LOCATION 24-NOV-09	

4. Send a plan of how the equipment will be laid out on the racks.
5. Inform them of the number of electricity contacts to be used.
6. Start the process of putting together the infrastructure at KIO Networks.

Once these documents have been sent to the Mexican Stock Exchange and/or MexDer through Bursatec, they will be checked and an estimate or, if applicable, notice of the modifications that need to be made in order to be cross-connected, will be sent out in a maximum of five working days.

The client will be responsible for the connectivity that forms a frontier with Grupo Bolsa's equipment because Grupo Bolsa, through Bursatec, will administer only the connection that forms a frontier with its own equipment.

Once the installation of the infrastructure in KIO Networks' premises has been completed, the client will ask the Mexican Stock Exchange's and/or MexDer's contact and the Bursatec executive for a certificate demonstrating that its system is free of any strange behavior that may affect Grupo Bolsa's systems.

Once the legal procedure and certification process has been concluded, the Mexican Stock Exchange and/or MexDer will issue a ruling. This will be delivered to the client's representative and a date for establishing a productive cross connection will be set. The timing of the cross-connection will depend on the supplier chosen by the client.

The estimated time for all the technical, administrative and legal activities to be completed is approximately 8 weeks. But this could vary, depending on the situation and requirements of each client.

Co-Location	Version: 1.3
General policies	Starting date: July-21-2009
DETAILED (TECHNICAL) GUIDE OF CO-LOCATION 24-NOV-09	

2.7 Contacts

For any clarifications or if there are any doubts, contact:

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