

# B3 CO-LOCATION SERVICES COMMERCIAL POLICY

## CONTENTS

CHANGE LOG .....	3
1 INTRODUCTION.....	4
2 B3 DATA CENTER.....	5
2.1 SANTANA DE PARNAÍBA DATA CENTER .....	5
2.2 XV DE NOVENBRO DATA CENTER.....	5
3 B3 CO-LOCATION SERVICES .....	5
4 ACCESS PROFILES .....	7
5 AVAILABLE CO-LOCATION SERVICES .....	8
5.1 RACKS – TYPES .....	8
5.1.1 HIGH-DENSITY RACK – SPECIFIC COMMERCIAL CONDITIONS .....	11
5.1.2 B3 RACKS – SPECIFICATIONS.....	12
5.1.3 CONNECTIVITY AND LATENCY.....	14
5.1.4 CONNECTIVITY WITH B3 .....	14
5.1.5 B3 DATA CENTER – INFRASTRUCTURE AND PROCEDURES.....	15
5.2 TYPES OF REMOTE ACCESS TO EQUIPMENT INSTALLED IN THE CO- LOCATION AREA .....	15
5.3 CROSS CONNECTION SERVICE .....	16
6 SPECIALIZED SERVICES .....	18
6.1 LEASING SPACE FOR GPS ANTENNAS.....	18
6.2 LEASING EQUIPMENT FOR CONNECTIVITY TESTING .....	19
6.3 EQUIPMENT TRANSPORT .....	20
6.4 NETWORK PROJECTS .....	20
6.5 IMPLEMENTATION OF NETWORK PROJECTS .....	21
6.6 LOCAL TECHNICAL SUPPORT (SMART HANDS).....	22
7 TELECOM OPEARATORS ACCREDITED BY B3 .....	24
8 HOW TO CONTRACT .....	25
8.1 CONTRACTS AND TERMS .....	25
8.2 CONTACTS .....	26
9 PRICE TABLE .....	27
10 QUERIES.....	29

## CHANGE LOG

Date	Version	Description	Responsible area
August 11, 2016	0.1	First draft	DO-DRD-SMD
February 16, 2017	1.0	Review of the commercial policy	DO-DRD-SMD
June 19, 2017	1.1	Inclusion of items in the instrument of agreement	DO-DRD-SMD
July 5, 2017	1.2	Review by the Executive Board	DO-DRD
October 25, 2018	2.0	New commercial policy	VPC
November 16, 2018	2.1	Adjustment to the Partners item	VPC
December 13, 2018	2.2	Inclusion of the latency item	VPC
November 29, 2019	3.0	Inclusion of new service: Leasing Space for GPS Antennas, Leasing Equipment for Connectivity Testing, and Transport Services	VPC
April 16, 2020	3.1	Inclusion of the Networks Projects and Implementation of Network Project	VPC
December 2, 2020	3.2	Inclusion of cross connection description	VPC
March 30, 2021	3.3	Reorganization of topics, inclusion of additional 256kbps VPN, inclusion of High-Density Rack, inclusion of Meet-Me Room at XV de Novembro, removal of the term Partners	VPC

## 1 INTRODUCTION

This Commercial Policy describes the rules for the Co-location Services provided at B3 Data Center, encompassing technical prerequisites, rights and duties and commercial conditions for those contracting these services.

This Commercial Policy will come into effect on April 19th, 2021, in accordance with Circular Letter 024/2021-PRE.

## 2 B3 DATA CENTER

B3 is a world-class financial market infrastructure company and one of the largest in market value. We are the structure that enables, the technology that connects and the base that develops the market.

The following B3 Data Centers provide Co-location services.

### 2.1 SANTANA DE PARNAÍBA DATA CENTER

Santana de Parnaíba Data Center (SPA) was inaugurated in 2017 and aims for the same level of service as the data centers of the world's major financial centers, bringing security and credibility to the Brazilian market. It is located in Santana de Parnaíba and provides state-of-the-art facilities for B3's licensees. It also provides an extremely low latency connection to the PUMA platform and for order entry and Market Data.

It has Tier 3 certification, provided by Uptime Institute, and Leed sustainability certification. It has 99.98% redundancy capacity and 24 hours a day seven days a week security infrastructure, with operating and technical centers that are qualified for on-site support.

### 2.2 XV DE NOVEMBRO DATA CENTER

The XV de Novembro Data Center (XV de Novembro) was reformed in 2008 and aims for the same level of service as the disaster recovery data centers of the world's main financial center, bringing security and credibility to the Brazilian market. It is located in the center of São Paulo and provides low latency connection to the PUMA platform for order entry and Market Data.

## 3 B3 CO-LOCATION SERVICES

B3's Co-location services consist of the provision of physical space, racks and cross connections between the licensees' computer equipment. This encompasses privileged access to the PUMA Trading System electronic trading

platform, which makes the B3 Data Center and important liquidity technology center for the Brazilian capital market.

The Co-location Services allow licensees to fully host their technology infrastructure, which they can use to access B3's electronic platforms and to access the technology platforms and services of other licensees via cross connection, considerably reducing the licensees' total cost.

The hosting of equipment and systems at the Santana de Parnaíba Data Center, through contracting B3 Co-location services, allows the licensees to enjoy the lowest network infrastructure latency possible for electronic trading.

This is possible due to the network used in the B3 Co-location Service being physically installed in the same infrastructure as the technology components of the PUMA Trading System, which are responsible for the licensees' asset and derivative order routing services to the trading platform.

## 4 ACCESS PROFILES

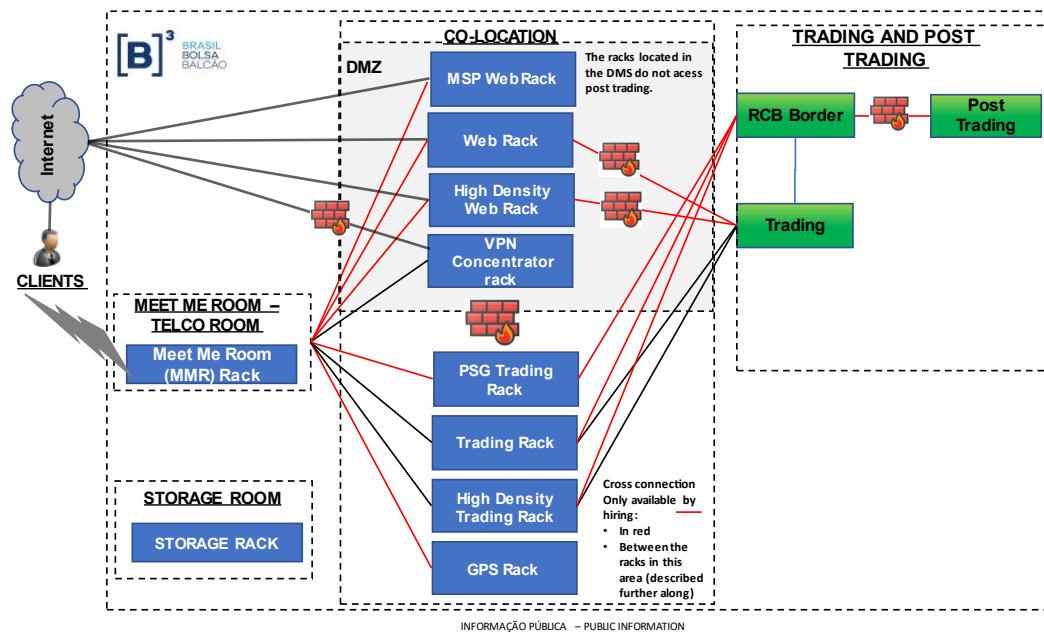
The B3 Co-location Services shall be acquired in accordance with the licensee's Access Profiles. It is common and entirely natural for a licensee to take on different profiles in order to contract different services within itself.

PROFILE	DESCRIPTION
<b>TRADING PARTICIPANT (PNP/PN)</b>	<p>Full Trading Participant (PNP): an institution that has access authorization for trading.</p> <p>Trading Participant (PN): an institution that has access authorization to broker transactions via a PNP, as defined in the B3 Access Manual and other B3 normative documents.</p>
<b>MARKET DATA DISTRIBUTOR</b>	<p>Provider of specialized solutions for providing Market Data from B3 or other exchanges and any other content of interest to market players, located at the Santana de Parnaíba Data Center. It can host equipment and systems at the B3 Data Center with the objective of capturing the feed for real time quotes directly from the PUMA trading platform or to receive content and quotes from other exchanges through dedicated circuits that arrive at their respective racks and redistribute them directly to other rack licensees by cross connection.</p>
<b>ORDER ROUTING SERVICE PROVIDER</b>	<p>Service provider specialized in providing managed systems for Execution/Order Management Systems (EMS and OMS) and other types of systems aimed at order routing and trading. This provider can supply B3 Co-location Service licensees with access to its systems via cross connection.</p>
<b>MANAGED SERVICE PROVIDER</b>	<p>Provider that offers managed IT infrastructure hosting services to other companies. This technology infrastructure can be for electronic trading, post-trade or relative to licensees' administrative systems.</p>
<b>CONNECTIVITY PROVIDER</b>	<p>Provider that supplies, via its own networks, means of communication with B3 for the distribution of B3 Market Data in native format, with no type of previous manipulation. In this way, clients of this provider can access the native Feed A of B3 Market Data without having to build individual circuits dedicated to B3's electronic quote feeds. This provider shall only install network communication equipment (switches, routers, etc.) inside its racks, which will be provided in the Meet-Me Rooms of the B3 Data Center. This provider is not part of the grouping of operators authorized to provide access to RCB. More information is available in the <a href="#">B3 Technology Infrastructure Access Manual</a>. This provider's clients must sign the relevant agreements for the services consumed. This provider must also provide B3 with access to systems that allow verification of all the licensees that connect to B3 through its infrastructure.</p>
<b>DEDICATED CIRCUIT PROVIDER</b>	<p>A company that administers the dedicated access circuits of the B3 Co-location Services licensee to the environment of its respective rack. This provider must be authorized by the National Telecommunications Agency (Anatel). This provider's equipment is hosted at the Meet-Me Rooms of the B3 Data Center with access allowed only after trading hours.</p>
<b>RCB PROVIDER</b>	<p>This provider is duly authorized by the National Telecommunications Agency (Anatel) and presents the minimum technical requirements that B3 demands for providing the participant's access to the infrastructure of the B3 Communications Network (RCB). This provider's equipment is hosted in the Meet-Me Rooms of the B3 Data Center B3 with access allowed only after trading hours.</p>
<b>CUSTOMER</b>	<p>This end investor registered in B3's systems, authorized by a PNP or PN, directly accesses the markets operated by B3.</p>

## 5 AVAILABLE CO-LOCATION SERVICES

### 5.1 RACKS – TYPES

B3 provides several types of racks for different purposes and Access Profiles, as set out in the topology map below.



B3 reserves the right to:

- analyze requests to contract different racks than those described herein.
- limit the contracted space, bearing in mind the B3's isonomy policy and seeking to serve the largest number of interested parties.

All the rack types are subject to availability.

The chart below contains detailed descriptions of the characteristics of each rack type, such as: sales, access, surveillance, energy capacity etc.

# B3 CO-LOCATION SERVICES COMMERCIAL POLICY



	Trading Rack	High-Density Trading Rack	Web Rack	High-Density Web Rack	MSP Trading Rack	MSP Web Rack
<b>Profiles authorized to contract the service</b>	PNP/PN Customer Service Provider (Market Data Distributor, Order Routing), Connectivity Provider				Managed Services Provider	
<b>Description</b>	Has privileged access to the trading and Market Data network, with extremely low latency. It is prohibited to deliver internet circuits directly to this rack. It is prohibited to host third parties' equipment.	Same characteristics as the Trading Rack, except the energy capacity which is 2.5 times greater.	Allows the direct delivery of internet circuits as it is located in a demilitarized zone (DMZ). The firewall, accesses B3's internal network (trading network). It is prohibited to host third parties' equipment.	Same characteristics as the Rack Web, except the energy capacity which is 2.5 times greater	Aimed at providers that host equipment for their clients. Through cross connection with the RCB Edge, it has access to the trading and Market Data network. It is prohibited to directly deliver internet circuits.	Aimed at providers that host equipment for their clients. Allows the direct delivery of internet circuits as it is located in a demilitarized zone. Through access by firewall or RCB Edge it accesses B3's internal network (trading network).
<b>Unit</b>	½ rack (21 Us)	½ rack (23 Us)	1/4 rack (10 Us)	½ rack (23 Us)	½ rack (21 Us)	1/4 rack (10 Us)
<b>Access to the trading network (including Market Data)</b>	Through LAN Co-location, two network points (primary and secondary) in multi-mode fiber with <b>10 Gb</b> access capacity.		Through LAN Co-location, two network points (primary and secondary) in <b>UTP 1 Gb</b> cable		Through contracting <a href="#">RCB Edge</a> type cross connection. Access to the local co-location network (LAN Co-location) is prohibited. B3 reserves the right to limit the number of cross connections.	Not allowed.
<b>Access to the post-trade network</b>	Through contracting <a href="#">RCB Edge</a> type cross connection	Through contracting <a href="#">RCB Edge</a> type cross connection	Not allowed.			Not allowed.
<b>Access to the Meet-Me Room, which allows access to the external network</b>	Two network points (primary and secondary) in single mode fiber. The maximum capacity per dedicated circuit delivered to the rack is <b>1 Gb</b> .		Through contracting of the <a href="#">Rack – Meet-Me Room</a> cross connection		Through contracting <a href="#">Rack – Meet-Me Room</a> . The circuits must be requested by the Managed Services Provider, with it being prohibited to contract and deliver in the name of its clients.	
<b>Internet access</b>	Direct delivery of internet circuits is prohibited		The delivery of internet circuits is allowed as the rack is in a DMZ. The internet circuit is not included in these services and must be acquired separately by the licensee.		Direct delivery of internet circuits is prohibited	The delivery of internet circuits is allowed as the rack is in a DMZ. The internet circuit is not included in these services and must be acquired separately by the licensee.
<b>VPN to access the external network</b>	VPN 256 Kbps per licensee, Upgrade to up to 2 Mb is allowed through contracting		Through <a href="#">contracting</a>		Through <a href="#">contracting</a>	
<b>Smart Hands</b>	10 hours of franchise per licensee				Through <a href="#">contracting</a>	
<b>Energy</b>	Up to 3.0 kW	From 5.5kW up to 7.5 kW	Up to 1.5 kW	From 5.5kW up to 7.5 kW	Up to 3.0 kW, through <a href="#">contracting</a>	Up to 1.5 kW, through <a href="#">contracting</a>
<b>Camera surveillance</b>	Yes		Not available	Yes	Through <a href="#">contracting</a>	Not available
<b>Market Data Content</b>	Allowed through signature of the Market Data licensing agreement. Only Feed A access of the Market Data platform is available at the Santana de Parnaíba Data Center. To receive Feed B, there must be contracting of a RCB (WAN) circuit of the circuit provider with the XV de Novembro Data Center.					

# B3 CO-LOCATION SERVICES COMMERCIAL POLICY



	VPN Concentrator Rack	GPS Rack	Storage Rack	Meet-Me Room Rack
<b>Profiles authorized to contract the service</b>	PNP/PN Customer Service Provider (Market Data Distributor, Order Routing) or Connectivity Provider, Dedicated Circuit Provider, RCB Provider			Dedicated Circuit Provider RCB Provider Connectivity Provider
<b>Description</b>	Aimed at hosting network equipment (router, firewall, switch etc.), facilitating the administration of third-party VPNs. Hosting servers is not permitted in any form whatsoever.	For providers of GPS to host their GPS, PTP and NTP feed distribution equipment.	For storing equipment. This type of rack is not located in the data hall where co-location services are provided.	For telecom operators to host their equipment in the Meet-Me Rooms of the SPA and XV de Novembro Data Centers.
<b>Unit</b>	1/4 rack (10 Us)	¼ rack (10 Us) or ½ racks (21 Us)	½ rack (21 Us)	¼ rack (10 Us)
<b>Access to the Market Data trading network</b>	Not allowed	Not allowed directly or through cross connection with the RCB edge.	Not allowed directly or through cross connection with the RCB edge.	The Connectivity Providers that wish to access Market Data, must contract the <a href="#">Rack Telecom – Switch Telecom MD</a> cross connection
<b>Access to the post-trade network</b>	Not allowed	Not allowed	Not allowed	Not allowed
<b>Access to the Meet-Me Room, which allows access to the external network</b>	Through contracting the <a href="#">Rack – Meet-Me Room</a> cross connection	Through contracting the <a href="#">Rack – Meet-Me Room</a> cross connection	Not allowed	Does not apply
<b>Internet access</b>	Allowed as it is in a DMZ, but the circuit must be contracted by the licensee	Not allowed	Not allowed	Not allowed
<b>VPN to access the external network</b>	Not applicable	256 Kbps per licensee VPN. It may be upgraded to 2 Mb through <a href="#">contracting</a>	Not allowed	Not allowed
<b>Smart Hands</b>	10 hours of franchise per licensee			
<b>Energy</b>	Up to 1.5 kW	1.5 kW (¼ rack) or 3.0 Kw (½ rack)	Not applicable	Up to 1.5 kW
<b>Surveillance Camera</b>	Does not have due to the size of the rack unit	Does not have due to the size of the rack unit	Not applicable	Not applicable
<b>Market Data Content</b>	Not allowed	Not allowed	Not allowed	Allowed through signing the Market Data distribution agreement

# B3 CO-LOCATION SERVICES COMMERCIAL POLICY

## 5.1.1 HIGH-DENSITY RACK – SPECIFIC COMMERCIAL CONDITIONS

B3 provides the High-Density Rack service, which allows licensees to install more complex and sophisticated technology infrastructure in racks with a high energy capacity, of up to 7.5 kW per 23 Us hosting unit.

For contracting energy, the High-Density Rack service follows the conditions described below.

- The energy capacity of the High-Density Racks starts from 5.5 kW, able through contracting additional energy to reach up to 7.5 kW per ½ rack, in other words, 15 kW per whole rack.
- The energy supplied to the racks is prepaid, with extra consumption subject to a post-consumption charge (post-paid).

### a) Prepaid energy

- i. The quantity is defined upon contracting.
- ii. If the licensee does not consume the prepaid energy in the invoice period, it will be charged the full contracted amount without the possibility of relocating the energy to the following period.
- iii. It will be prohibited to relocate the High-Density Rack contracted energy to other racks.
- iv. High-Density Rack prepaid energy changes to a smaller amount will only be allowed as of six months of its contracting or last change.
- v. High-Density Rack prepaid energy changes to a larger amount will be allowed at any time.
- vi. Prepaid energy changes will be charged pro rata within a determined monthly period and there will be no change to the effectiveness of the previously signed agreement.

**b) Additional post-paid energy:** consumed without previous contracting. All High-Density Racks shall be subject to this fee structure.

- vii. B3 will calculate monthly the energy consumption of the High-Density Racks. In this period, if there is identification of more energy consumed than the contracted prepaid amount, even if for a short part of the day, the additional energy consumed will be charged in the following month.
- viii. If the energy consumed surpasses the contracted prepaid energy, there will be no stop or previous alert to the licensee.
- ix. The value charged in the post-paid energy category will be the equivalent of the difference between the contracted prepaid energy and energy consumed.
- x. The energy increment occurs by every 1 kW, with no fractions thereof. In other words, if the user has contracted the rack with 5.5 kW and consumes 7 kW, the additional consumption, despite being 1.5 kW will be charged as 2 kW of post-paid energy.

B3 offers the possibility of High-Density Rack contracting for a period of 12 or 36 months, with differentiated commercial conditions, described in the [price table](#) further ahead, formalized by the Co-location Terms of Adhesion.

## 5.1.2 B3 RACKS – SPECIFICATIONS

There follows a description of the technical specifications of B3's racks provided to the licensees.

- Locking system: front and rear.
- Dimensions:

	½ Rack Unit (only High-Density Rack)	½ Rack Unit (other racks)	¼ Rack Unit
<b>Height</b>	1100 mm	1000 mm	500 mm
<b>Width</b>	600 mm	600 mm	600 mm
<b>Depth</b>	1200 mm	1200 mm	1200 mm
<b>Support width (rails)</b>	482.6 mm (19)	482.6 mm (19)	482.6 mm (19)
<b>Support height</b>	23 Us: 963.45 mm (37.93)	21 Us: 933.45 mm (36.75)	10 Us: 254 mm (10)

- Layout: each row comprises a sequence of two or three continuous racks, a spacer rack for cooling and so forth. B3 may at its sole discretion or following a request by the licensee open the sides of immediately adjacent racks that are fully contracted by the same institution.

Regarding energy, the racks comply with the following specifications.

- Redundant circuits.
- To maintain its Data Center’s healthy running and security, B3 continuously monitors energy consumed per rack and will notify the licensee when there is a breach of the rules for total possible energy consumed per rack.
- B3 provides electrical socketing dedicated to identifying maintenance requirements, independently of the servers’ electricity network, in the ABNT NBR 14136 standard with 12 outlets per ½ rack, except for the High-Density Rack, which has 24 outlets per scale in the same ABNT NBR 14136 standard.
- The licensee may opt to install manageable power strips inside the rented rack. However, before installation there must be technical approval of this strip, whose descriptions and specifications shall be provided to B3’s engineering team.
- B3 determines that all licensees without exception shall use the equipment with dual sources to guarantee that energy is uninterruptedly fed to the equipment in the case of maintenance (planned or emergency) or in the case of failure. If the client opts to use only one source, it must assume all responsibility in the case of unavailability.

- B3 recommends that the licensee repeatedly assesses electrical load balancing by the capacity of each source. In this way, if an electrical feed is unavailable it is possible to prevent overloading at one of the sources and automatic shutdown of equipment.

## 5.1.3 CONNECTIVITY AND LATENCY

To maintain isonomy for conditions and the quality of services provided to licensees of B3's Co-location Services, all the cables dedicated to managing applications, trading, cross connection, or receiving dedicated circuits within the B3 Data Centers' co-location area are of the same size, being equidistant.

Latencies to the trading platform vary depending on the Access Profile, as described below.

- Via **LAN Co-location** means 22 $\mu$ s latency for the services that use TCP protocol (OE Gateways, Conflated UMDF Gateways and TCP Recovery) and 11 $\mu$ s latency for the Market Data UMDF platform (UDP protocol).
- Via **cross connection** with the **RCB Edge**, means additional latency of around 30 $\mu$ s for services that use the TCP protocol (OE Gateways, Conflated UMDF Gateways and TCP Recovery) and 15 $\mu$ s latency for the UMDF market data platform (UDP protocol).



The values are measured in a laboratory in controlled conditions and may change depending on the consumption conditions of network resources.

## 5.1.4 CONNECTIVITY WITH B3

The B3 Technology Infrastructure Access Manual provides information about the forms of connection to B3.

This manual is available at <http://www.b3.com.br>, Solutions, UMDF, B3 Technology Infrastructure Access Manual.

## 5.1.5 B3 DATA CENTER – INFRASTRUCTURE AND PROCEDURES

The technical details of the Co-location Services foreseen in this Commercial Policy are available at [http://www.b3.com.br/pt\\_br/solucoes/hosting-colocation/data-center/data-center/co-location-em-spa.htm](http://www.b3.com.br/pt_br/solucoes/hosting-colocation/data-center/data-center/co-location-em-spa.htm), Infrastructure and Procedures.

- B3 Data Center Infrastructure: describes information about energy, cooling, fire prevention, physical security, surveillance.
- B3 Data Center Procedure: describes information about the licensees' rack equipment, such as requesting physical access to the Staging and Co-location area for visitors, working hours, receipt of material.

## 5.2 TYPES OF REMOTE ACCESS TO EQUIPMENT INSTALLED IN THE CO-LOCATION AREA

The equipment installed in the hosting unit shall be accessed remotely by the licensee, for example for:

- verification of the integrity of applications installed in the rack.
- access to the systems installed in equipment located in the rack.
- communication between the systems installed in the rack and outside of the B3 Data Center.
- administrative activities such as backup, log gather, system updates etc.

The following connectivity options are authorized for remote access.

- Dedicated circuit.
- Internet (only for the units installed in DMZ, Rack Web, MSP Rack Web, High-Density Rack Web, VPN Rack Concentrator).
- Lan-to-Lan VPN: B3 shall establish a limit per VPN (for each licensee) for bandwidth use, with the security established vis IPSEC cryptographic tunnel, via the licensee's IP address and shared security key. It will be possible to expand VPN capacity through specific service contracting, pursuant to the contracting provisions herein.

The following conditions apply regarding the connectivity options.

- The licensee is responsible for contracting the form of remote access with the telecoms operator accredited by B3, from its installations to those of B3.
- B3 and the licensee shall provide the technical information to establish the connection and to release security if the connection choice is internet VPN.
- The contracted bandwidth corresponds to a fraction of the internet bandwidth of B3's circuits. Even with this bandwidth reserve, there is no guarantee that the end-to-end connection will support the bandwidth fraction contracted in B3's internet circuits, as there is dependence of the circuits on the side of the licensee.
- The licensee and the operator are responsible for monitoring the connection.
- All connections will be subject to B3 surveillance.

## 5.3 CROSS CONNECTION SERVICE

The Cross Connection service aims to provide connection between:

- racks and access to the Meet-Me Room, trading, and post-trade environments of B3.
- racks of the same licensee within the same co-location space.
- racks of different licensees within the same co-location space. In this case, B3's approval is mandatory, in addition to the written consent of both parties, via a Letter of Authorization (LoA) together with the application request.

The permitted cross connections are listed in the table below. Other types must be submitted in advance for approval by B3.

Please note that the cross connections of the racks in the DMZ (Rack Web, High-Density Rack Web, MSP Rack Web, VPN Rack Concentrator) shall unavoidably pass through a firewall.

# B3 CO-LOCATION SERVICES COMMERCIAL POLICY



CROSS CONNECTION												
Name	Point A	Point B										
		Trad. Rack	Web Rack	High-Density Trad. Rack	High-Density Web Rack	MSP Web Rack	MSP Trad. Rack	VPN Conc. Rack	Meet-Me Room Rack	Market Data Switch	Trad. Switch	RCB Edge Switch
<b>Rack – Rack*</b>	Trading Rack Web Rack High Trading Density Rack High-Density Web Rack VPN Concentrator Rack	✓	✓	✓	✓	✓	✓	✓	NA	NA	NA	NA
<b>Rack –GPS Rack *</b>	GPS Rack	✓	✓	✓	✓	✓	✓	✓	NA	NA	NA	NA
<b>Rack – Telecom Rack*</b>	Meet-Me Room Rack	✓	✓	✓	✓	✓	✓	✓	NA	NA	NA	NA
<b>Telecom Rack – Telecom Rack*</b>	Meet-Me Room Rack	NA	NA	NA	NA	NA	NA	NA	✓	NA	NA	NA
<b>MSP Rack – RCB Edge</b>	MSP Trading Rack MSP Web Rack	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	✓
<b>Telecom Rack – Telecom MD Switch</b>	Meet-Me Room Rack	NA	NA	NA	NA	NA	NA	NA	NA	✓	NA	NA
<b>Trad. Rack – PUMA</b>	Trad. Rack High-Density Trad. Rack	NA	NA	NA	NA	NA	NA	NA	NA	✓		NA
<b>Rack – RCB Edge</b>	RCB Edge Switch	✓	✓	✓	✓	✓	✓	✓	NA	NA	NA	NA
<b>Trad. MSP – Trad. Rack*</b>	MSP Trad. Rack	✓	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>MSP Web – Trad. Rack*</b>	MSP Web Rack	NA	✓	NA	NA	NA	NA	NA	NA	NA	NA	NA

\*If the cross connection is made between racks of different institutions, a Letter of Authorization (LoA) must be sent with the application request.

# B3 CO-LOCATION SERVICES COMMERCIAL POLICY

## 6 SPECIALIZED SERVICES

B3 also provides specialized services, described in Item 6, related to operations of B3 Co-location Service licensees, so that they may begin their operations at B3's Santana de Parnaíba Data Center in a swift and secure manner.

### 6.1 LEASING SPACE FOR GPS ANTENNAS

B3 allows PNs, PNPs, Customers and Service Providers to install GPS antennas on the roof of the B3 Data Center to receive the feed and for service distribution related to clock synchronization.

During contracting of this service, the licensee must perform a technical survey at B3's Santana de Parnaíba Data Center to obtain information that allows installation of antenna cable routing to its hosting units at the co-location area.

After the survey, the licensee must draft and submit the installation project for B3's validation, in DWG format. When the project has been approved, the licensee shall request via CSNet or email ([pumalink@b3.com.br](mailto:pumalink@b3.com.br)), the GPS Antennas Co-location Service and must sign the Authorization for Synchronization Service Provision. Information about the data, as well the technical contacts responsible for antenna installation, cable routing and installation of equipment in the co-location environment, shall be provided by the licensee to B3's Smart Hands team. Invoicing of the service will begin only after the antenna has been installed.

The licensees will provide B3's responsible technicians with the equipment, cables and EPs. B3 will not provide any computer or security equipment during the activity of the technicians provided by the licensees.

The GPS signal receiving equipment used for distribution of the service within the co-location area must be hosted in the licensee's own rack for the GPS Antenna Co-location Service.

B3 also commercializes the GPS Rack, a specific hosting unit for equipment to receive the GPS signal for licensees who might not have contracted a hosting

unit. If the signal provider rescinds the contract with B3, it must inform its respective licensees and B3 with at least three months' notice.

## 6.2 LEASING EQUIPMENT FOR CONNECTIVITY TESTING

Leasing Equipment for Connectivity Testing is a service for licensees of B3's Co-location Services, which allows them to test their dedicated circuits.

Licensees that request this service must have a rack contracted with B3 in one of the profiles described in this Commercial Policy. B3's equipment will allow the execution of connectivity tests in network layer, through ping, traceroute/tracert and telnet commands, for example, with the destination ports of the licensees.

After contracting this service, the technical manual will be sent to the licensee, describing the equipment and static IP for tests.

If the licensee needs to perform tests involving BGP protocol, B3 reserves the right to analyze the availability of equipment that allow execution. The value to be applied will be analyzed according to demand and may be different to the price of the Connectivity Test services described in the price table.

The tests shall be performed by the licensee of the service and, after the contracted rack equipment has been provided, there will be no support and surveillance activity from B3. B3's Smart Hands team will perform the installation/uninstallation of the licensee's rack equipment, who will have seven calendar days to perform the connectivity tests. At the end of the contracting term, the equipment will automatically switch off.

If more time is required, the licensee must contract an additional period and inform B3 with at least one day's notice.

This service will have the same prices that are described in this Commercial Policy's price table.

As with the other specialized services, the Connectivity Test services **do not** comprise the ten hours of the Smart Hands franchise.

## 6.3 EQUIPMENT TRANSPORT

The transport service is a logistics solution provided solely to the licensees of B3's Co-location Services. B3 will meet demand according to the licensees' options, variable according to:

- number of equipment
- volume of equipment
- weight of equipment
- distance covered
- security of equipment (mandatory)
- escort (optional).

The transport service will be provided only in corresponding cities in the states of São Paulo, Rio de Janeiro and Espírito Santo. There will be no type of service provided involving customs clearance.

Licensees that contract this service must provide a bill of sale for the equipment that will be transported. Equipment that does not have the necessary documentation will not be transported in any hypothesis.

The transport values will be analyzed according to demand and considering the variables described in this item.

## 6.4 NETWORK PROJECTS

The Network Projects service is provided only to current and future licensees of B3's Co-location Services and aims to provide specialized labor for installing one of the profiles within the Co-location environment (MSP Rack, Web Rack or Trading Rack).

The service will encompass the following points.

- Description of the routing protocols, including recommendations about the use of these products.

- Network implementation project plan.
- Mapping of IP address and assigning names.
- Mechanisms and products recommended for security, including a security policy summary and associated procedures.
- Architecture and product recommendations.
- Documentation about the configuration proposed for network equipment.
- Design of the licensee's environment, following B3's security and architecture rules.
- Logical and physical topology of the licensee network to B3 and within B3's technology environment.

Topology projects that are not described herein will not be provided for the time being.

## 6.5 IMPLEMENTATION OF NETWORK PROJECTS

The implementation of Network Projects encompasses the activities described in item 6.4 with the performance of tests and validation.

This service encompasses the following items:

- Preparation of a checklist when the project is being drafted.
- Implementation of the plan drafted during the project period.
- Alignment with the B3 team for the best implementation date and time.
- Submission of the activities timetable.
- Submission, with evidence, of the environment test book.
- A review of the timeframe and cost, if there is a change to the scope of the project, with it being necessary to submit a new timetable and implementation plan.

## 6.6 LOCAL TECHNICAL SUPPORT (SMART HANDS)

Licensees are provided with local technical support (Smart Hands) to operationalize their equipment's access to B3 platforms. Support activities will be carried out by qualified B3 technical personnel at the request of the licensee (or persons authorized by him, prior and duly indicated).

B3 Co-location Service licensees are automatically granted a 10-hour monthly allowance for Smart Hands services, regardless of the number of hosting units contracted. The licensee will be charged accordingly to the price list for additional hours.

The following are Smart Hands services:

- Monitoring of licensees and/or suppliers: performed at the licensee's rack with a specialized B3 professional.
- Electrical activation of the rack: B3 provides the service of electrical activation of the rack for Participants, Customers, Managed Service Solution Providers and Connectivity Providers.
- Equipment installation: B3 provides specialized technicians to install equipment within the co-location environment during business hours.
- Cabling: B3 provides cabling services at the racks within the co-location environment, such as:
  - cross connection of equipment to the rack
  - cross connection of the rack to the data center (licensee activation)
  - cable routing (copper and fiber)
- Uninstalling and moving equipment.
- Equipment inventory.
- Support in the assembly of equipment in the staging or storage area.
- Transport of equipment for activation in the co-location area.
- Reception of equipment from licensees.
- Visual check of the rack.
- Equipment reset.

- Guidance for the licensee about the equipment.
- Granting of physical access within the co-location environment and staging area.
- Energizing the Trading Rack and Web Rack of Participants and Customers.

The items described above will be costed according to the Smart Hands services and will be measured per manhour spent after consumption of the monthly franchise.

The Smart Hands team is available to licensees for eight business hours a day, five days a week, with two-hour periods to answer queries and handle or solve problems. B3 provides standby workers for weekends and public holidays, who also have two-hour periods to answer queries and handle or solve problems.

The request for Smart Hands technical support must be made directly to the co-location team by email ([Colocation@b3.com.br](mailto:Colocation@b3.com.br)), Portal Service Now, or by telephone +55 11 2565-5140. B3 will issue due confirmation.

B3 will analyze requests for technical resources and services not contained in the above list on a case-by-case basis, reserving the right to accept or refuse according to technical and commercial viability.

## 7 TELECOM OPEARATORS ACCREDITED BY B3

The operators that B3 accredits for contracting dedicated circuits, and RCB operators, are listed below.

Co-location operators – SPA	RCB operator?	Business Manager	Telephone	Email
Algar Telecom	✓	Eduardo dos Santos Medici	+55 11 3512-1285	<a href="mailto:medici@algartelecom.com.br">medici@algartelecom.com.br</a>
Ascenty		Vinícius Minetto	+55 11 3508-8910 – ext.: 1306 +55 11 95267-4676	<a href="mailto:vinicius.minetto@ascenty.com">vinicius.minetto@ascenty.com</a>
CenturyLink	✓	Ronaldo Finotti	+55 11 97270-8346 +55 11 3957-2093	<a href="mailto:ronaldo.finotti@lumen.com">ronaldo.finotti@lumen.com</a>
Novvacore (CMA Telecom)	✓	Ricardo Bussolan Juan	+55 11 3053-2658	<a href="mailto:ricardobj@cma.com.br">ricardobj@cma.com.br</a>
Durand (Tavtel)		Eduardo Parajo / Flávio Abreu	+55 11 2134-3500	<a href="mailto:comercial@durand.com.br">comercial@durand.com.br</a>
Embratel / Primesys	✓	Eliane Atílio de Oliveira	+55 11 99255 0435	<a href="mailto:eliane.aoliveira@claro.com.br">eliane.aoliveira@claro.com.br</a> <a href="mailto:COMLBMF@embratel.com.br">COMLBMF@embratel.com.br</a>
GTT		Jeferson Gama	+55 11 4130-3003 ext. 1061	<a href="mailto:jeferson.gama@gtt.net">jeferson.gama@gtt.net</a>
Megatelecom		Cesar Ribeiro	+55 11 2110-1000 ext. 5037	<a href="mailto:cesar.ribeiro@meqatelecom.com.br">cesar.ribeiro@meqatelecom.com.br</a>
Mundivox	✓	Erik Vidual	+55 (11) 94534-9484 +55 (11) 4550-4550 +55 (21) 3553-3553	<a href="mailto:evidual@mundivox.com">evidual@mundivox.com</a> <a href="mailto:comercial@mundivox.com">comercial@mundivox.com</a>
SAMM	✓	Wagner Aparecido de Almeida	+55 11 3194-9403	<a href="mailto:wagner.almeida@grupoccr.com.br">wagner.almeida@grupoccr.com.br</a>
Seaborn	✓	Jason Burrett	T: +1 (978) 471-3154 M: +44 (0)7702 117855/ +1 (978) 816 6332	<a href="mailto:jason.burrett@seabornnetworks.com">jason.burrett@seabornnetworks.com</a>
		Daniel Rondon Borin	+55 (11) 99779-2045	<a href="mailto:daniel.borin@seabornnetworks.com">daniel.borin@seabornnetworks.com</a>
		Marcos Martin Costa	+55 (11) 94125-4061	<a href="mailto:marcos.costa@seabornnetworks.com">marcos.costa@seabornnetworks.com</a>
Vivo (Telefônica)	✓	Tiago Munhoz Rodrigues Robles	+55 11 94511-6329	<a href="mailto:tiago.robles@telefonica.com">tiago.robles@telefonica.com</a>

**Note:** with the exception of administration VPN access provided by B3, both access via dedicated circuit and via internet shall be subject to contracting, installation, maintenance and support by the institution with the telecom operators.

## 8 HOW TO CONTRACT

### 8.1 CONTRACTS AND TERMS

Depending on the requirements of the licensee, the documents below must be signed and delivered in digital form, demonstrating powers that the company bestows to the legal representatives and/or proxies that sign them.

Contract / Terms	Description	Responsible contact
<b>Adhesion Term for B3 Co-location</b>	Governs the rights and responsibilities regarding hosting contracting in co-location.	<p>Queries: B3 Connectivity, Front &amp; Middle Office, by email at <a href="mailto:salesdatacenter@b3.com.br">salesdatacenter@b3.com.br</a> or by telephone on +55 11 2565-5996</p> <p>Contracting: email <a href="mailto:pumalink@b3.com.br">pumalink@b3.com.br</a> telephone +55 11 2565-5080</p>
<b>Adhesion Term for Access Providers to B3 Technological Infrastructure</b>	Governs the rights and responsibilities that the operators and providers must observe to maintain their equipment and provide their services inside the Meet-Me Rooms (MMRs) of the Santana de Parnaíba and XV de Novembro. Data Center	
<b>Authorization Term for Provision of Synchronization Service</b>	Determines the rights and responsibilities of those wishing to provide Synchronization service.	
<b>Authorization for Co-location Managed Service Provider</b>	Governs the rights and responsibilities regarding the Managed Service Provider service that the provider will supply to B3's end client.	
<b>Permission Agreement for Provision of Order Routing Services</b>	Governs the rights and responsibilities regarding order routing services by solution providers and licensees that wish to connect directly to B3's trading platform.	
<b>Market Data Distribution Agreement</b>	Governs the rights and responsibilities for internal and external Market Data distribution.	

## 8.2 CONTACTS

The services related to this Commercial Policy must be contracted via CSNet or email, as below:

- institutions authorized as PNP/PN: CSNet;
- other institutions: send email to [pumalink@b3.com.br](mailto:pumalink@b3.com.br) or call +55 11 2565-5080.

The requesting licensees will be billed monthly for the Co-location Services that are consumed.

## 9 PRICE TABLE

The price table values are updated annually according to the IPCA price index and published in a B3 External Communication.

HOSTING UNITS			
Service	Unit	Activation / Change <sup>(1)</sup>	Monthly Fee
Trading Rack	½ rack	USD 62,86	USD 1.466,62
MSP Trading Rack	½ rack	USD 62,86	USD 1.466,62
Web Rack	¼ rack	USD 62,86	USD 733,31
MSP Web Rack	¼ rack	USD 62,86	USD 733,31
GPS Rack	¼ rack	USD 62,86	USD 733,31
GPS Rack	½ rack	USD 62,86	USD 1.466,62
Storage Rack	½ rack	USD –	USD 419,04
MMR Rack– Santana de Parnaíba	¼ rack	USD 62,86	USD 83,81
MMR Rack – XV de Novembro	¼ rack	USD 62,86	USD 83,81
VPN Concentrator Rack	¼ rack	USD 62,86	USD 733,31

HIGH-DENSITY RACK						
Service	Unit	Qty kW	Activation / Change <sup>(1)</sup>		Monthly fee	
			Standard contract	3-year contract	Standard contract	3-year contract
Prepaid – High-Density trading or Web Rack	½ rack	5.5 kW	USD 62,86	USD 62,86	USD 3.650,19	USD 3.041,83
		6.5 kW	USD 62,86	USD 62,86	USD 4.220,53	USD 3.536,12
		7.5 kW	USD 62,86	USD 62,86	USD 4.676,81	USD 3.802,28
Post-paid additional energy	-	1.0 kW	-	-	USD 1.026,62	USD 855,51

VPNs			
Service	Unit	Activation / Change <sup>(1)</sup>	Monthly fee
Upgrade VPN to 1 Mbps	Per connection	USD 31,43	USD 146,66
Upgrade VPN to 2 Mbps	Per connection	USD 31,43	USD 188,57
VPN additional 256 kbps	Per connection	USD 31,43	USD 104,76
VPN 256 kbps to Managed Services Provider	Per connection	USD 31,43	USD 104,76

CROSS CONNECTION			
Service	Unidade	Activation / Change <sup>(1)</sup>	Monthly fee
Rack – GPS/PTP Rack	Per connection	USD 31,43	USD 31,43
Rack – MMR Rack	Per connection	USD 104,76	USD 104,76
MMR Rack – MMR Rack	Per connection	USD 104,76	USD 104,76
MSP Rack (Web or Trading) – RCB Edge <sup>(3)</sup>	Per connection	USD 209,52	USD 419,04
MMR Rack – MD Switch <sup>(5)</sup>	Per connection	USD 209,52	USD 419,04
Trad. Rack – PUMA Trading System <sup>(6)</sup>	Per connection	USD 60,21	USD 702,47
Rack – RCB Edge <sup>(2)</sup>	Per connection	USD 209,52	USD 209,52
Trad. MSP – Trad. Rack	Per connection	USD 209,52	USD 209,52
Web MSP – Trad. Rack	Per connection	USD 209,52	USD 209,52
Rack – Rack	Per connection	USD 62,82	USD 62,82

ENERGY FOR MANAGED SERVICE PROVIDER (MSP)			
Service	Unit	Activation / Change <sup>(1)</sup>	Monthly fee
Energy from the Managed Service Provider rack	Per ½ rack	USD –	USD 301,06
Energy from the Managed Service Provider web rack	Per ¼ rack	USD –	USD 150,53

SPECIALIZED SERVICES			
Service	Unit	Activation / Change <sup>(1)</sup>	Monthly fee
Smart Hands	Manhour	USD 60,21	USD –
Leasing equipment for Connectivity Test	Weekly or daily	USD –	USD 276,00 per unit
Leasing Space for GPS Antenna GPS	By space	USD 601,91	USD 1.045,63
Networks Project and/or Implementation of Network Projects	By demand	USD –	To be defined
Transport	By demand	USD –	To be defined
Camera surveillance	By unit	USD –	USD 52,38

- (1) Single payment upon request of activation or change.
- (2) Applied only to PNP, Customer, Market Data Provider and Order Routing licensees.
- (3) Applied to Managed Service Providers.
- (4) Cross connection available only to Connectivity Provider.
- (5) Cross connection available only to licensees that had a Trading Rack contract.

## 10 QUERIES

Bearing in mind the particularities and possible scenarios in B3 Co-location Services, we have provided some illustrations below to clear doubts that may arise in specific situations.

- B3 reserves the right to assess the installation by other institutions of securities and derivatives electronic trading platforms (exchange or OTC) that are alternatives to the PUMA Trading System at the B3 Data Center.
- Following the licensee's request, B3 may at its sole discretion sign a specific instrument that establishes values for personalized services, observing the labor to be spent by its internal area(s) and the market value.