

Datacenter

Technical specifications

interxionTM InterXion Brussels
Wezembeekstraat 2
1930 Zaventem
Belgium

Belgian Network Solutions bvba has its own cage within the datacenter of InterXion in Zaventem. The datacenter is provided with emergency power, climate regulation via air optimization solutions, fire protection and suppression, raised floors, access controls, network security etc.

Facility - Ambient conditions

The surrounding conditions are security related within the building and the dataroom, such as the air conditioning, the fire-, lightning-, smoke- and water detection systems.

The has a grounding system with a copper compound per footprint of 50mm². is maintained at 21 ° C (+ / 4° C) and a humidity of 50% (+ / 10%).

Datacenter

- Type of construction: outstanding building
- Loading bay and warehouse space for temporary storage of equipment
- 24/7/365 on-site security guard Securitas (Group 4)
- Closed Circuit surveillance (CCTV) on the interior and exterior of the building.
- Key and badge for access to building and cage Benesol
- Access policy
- Office space: Interxion can provide shell or turnkey office space at your request. Optionally, office rooms are equipped with desks, chairs and storage cabinets according to your needs. Power and phone/fax lines, as well as conference rooms are also available.

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- 12m²
- Floor
 - 40cm plus
 - Anti-static floor
- Cabling
 - Power cabling is laid under raised anti-static computer flooring.
 - Data cabling is usually in trays overhead, and can also be laid beneath the flooring.
- Racks
 - Dimensions: 200cm x 60cm x 100cm (H x W x D)
 - Unique code or key for rackspace

Safety - Alarms and monitoring

Interxion data center buildings are designed as "buildings within buildings," and are protected around the clock by security guards and monitored video surveillance cameras. No one enters or leaves without proof of identity, and all visitors are checked against customer-defined access lists.

- Fire detection and suppression
 - Fire-retardant walls
 - Early warning laser smoke detectors (underneath and above the flooring)
 - Direct lines to fire stations
 - Automatic gas-based fire suppression systems.
- Earthing system and lightning protection
- Water detection
 - Water detection systems are installed in all areas that may be susceptible to leakage. The water detection alarms are relayed directly to the Interxion European Support Center.

Power supply

Datacenter

- The continuous power is supplied by 2 independent circuits of 230V AC and 400V AC, redundant power supply, UPS with battery and back-up generator.
- The tests are completed on a monthly basis (during the night)

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- 2 x PDU
- Belgian Network Solutions guarantees to offer a power supply up to 16Amp per 1/1 rack
 - 1/1: 2 x 16Amp 1- phase (1 x A-feed + 1 x B feed)

Power recovery

The colocation space supports protected services such as: redundant power supplies, battery and back-up generator.

- UPS back-up
 - N + N
 - Switches in about 20 seconds, in the case of power failure
- Back-up Diesel Generators
 - Capacity for 24 hours
 - N +1
- Battery back-up
 - 48 volt direct current (VDC), with an autonomy of 10min
 - A-feed + B-feed
- The tests are completed on a 3-monthly basis (during the night)

Climate control - Cooling supply

For optimum performance, all equipment is maintained and continuously monitored in a climate-controlled environment. The average room temperature is controlled between 21°C (\pm 4°C) and a humidity level of 50% (\pm 10%).

- Cooling system (HVAC)
 - Multiple air conditioning units provide redundant capacity.
- Cooling by chillers N + 1
- Belgian Network Solutions dispose of 750W/m² as total cooling supply

Connectivity

In our datacenters we deliver connectivity and colocation services for all businesses, carriers, ISV's, ISP's, ASP's, etc. Also, the ability to connect you with your equipment via the Internet (IP / MPLS connection) and fiber (CWDM / DWDM connection).

InterXion

Overview of the operators in the InterXion datacenter:

- Belgacom
- Telenet
- Verizon Communications
- Telefonica Wholesale
- Colt
- Tata Communications (TeleGlobe/VSNL)
- Tiscali International
- France Telecom
- Interoute
- AT&T
- BT
- Global Crossing
- Level3 Communications
- KPN International
- ...

Benesol

Transit providers

The network of Belgian Network Solutions is third-party independent by using the best suppliers for all data traffic.

Benesol network is connected to different TIER-1 carriers:

ASN	Transit Provider	Speed
174	Cogent Communications	1000 Mbit
3356	Level3 Communications	2000 Mbit
3257	Tinet	1000 Mbit
12989	Highwinds Network Group	1000 Mbit

Lokale en internationale internet exchanges

Benesol has connections to the following international peering exchanges:

Internet Exchanges		
Macro	Internet Exchange	Speed
AMS-IX	Amsterdam Internet Exchange	1000 Mbit
FreeBIX	Free Belgian Internet Exchange	1000 Mbit

PoP facilities

PoP facilities
Colt Brussels, Belgium
InterXion Brussels, Belgium
LCL Brussels, Belgium
Level3 Brussels, Belgium
Mobistar Brussels, Belgium
Telecity 2 Amsterdam, The Netherlands

The network specifications

The highly qualified Benesol staff monitors the 24/7/365 multihomed Backbone network.

- Redundant network with 99,99% guaranteed Internet access
 - 2 switch uplinks (2 different circles to patch panel)
 - 2 x 100 Mbps up to 10 Gbps
- Fully redundant fiber (optical) network
 - Capacity of 320 Gbit/s between the Colocation PoP's and 622Mbit/s to regional PoP's
 - Cisco Powered
 - Optical Wave Length Channeling (DWDM / CWDM)
 - Metro Ethernet (I2vpn) over MPLS
 - SIP / VoIP infrastructure, gateways and managed services

