Internet Connectivity (Belnet and internet)

Trouble-free, high-performance Internet connectivity

Fast and reliable connectivity

The Belnet network is a powerful hybrid network with an IP layer and an optical layer. The optical layer connects the network's 28 nodes or Points of Presence. Belnet offers high-bandwidth IP connectivity to the Internet and to the research networks. You can choose from port capacities and bandwidths ranging from 100 Mbit/s to 10 Gbit/s (100 Gbit/s is also available on demand). The type of connectivity and associated rates depend on the target group to which you belong. Our Internet Connectivity rate list gives you more details on the target groups and rates.

Internet Connectivity via Belnet and its benefits

- **High speed**
  Belnet provides fast connections, with speeds from 100 Mbit/s to 10 Gbit/s (100 Gbit/s is also available on demand). Your organisation can increase its bandwidth at any time.
- **Guaranteed bandwidth**
  Belnet provides sufficient capacity in its network to guarantee your Internet and research bandwidth. There is no limitation on the amount of data you can exchange.
- **Symmetric bandwidth**
  Belnet provides the same bandwidth for uploading and downloading.
- **Transparency**
  Belnet does not filter or limit any type of data traffic on its network.
- **Reliability**
  Your connectivity is guaranteed thanks to the redundant structure of our network.
- **Worldwide collaboration**
  Your organisation is connected to national and international research networks, together with other research and educational institutions. Unlimited data exchange on the network stimulates your research and educational activities. The powerful network also promotes collaboration between public services.
- **Belnet Service Desk 24/7**
  Guarantees comprehensive follow-up and fast response times in case of emergency.
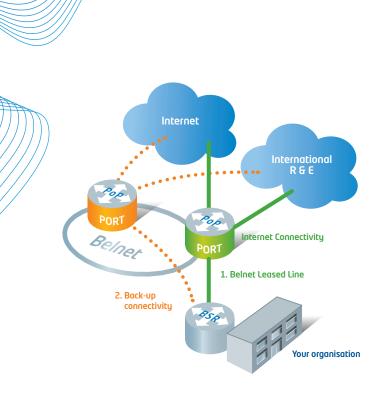
Trouble-free connectivity with Belnet

Optimum access to the Belnet network consists of a primary connection (1) and an extra, back-up connection (2). The diagram depicts the ideal scenario, which is then further described below.

Your connection to the Belnet network requires a leased line. The leased line starts at an access port that is installed in your network by a telecom operator and is connected to the router of a Point of Presence (PoP).

Belnet
dedicated connectivity

Internet

International
R & E

PoP
PORT

Belnet

PoP
PORT

Internet Connectivity

1. Belnet Leased Line

2. Back-up
connectivity

BSR

Your organisation

Back-up connectivity: 100% reliability

To guarantee redundancy for your organisation and possibly your critical equipment, we advise implementing a back-up connection to the Belnet network. Back-up connectivity guarantees that you remain connected to national and international research networks and to the Internet, even in the case of disruptions (such as a glass fibre break) to your primary connection. To implement this additional connection, you will need an extra leased line to an access port at a Point of Presence on the Belnet network. Belnet advises choosing a different Point of Presence than the one serving your primary connection.

The Belnet Leased Line also has its advantages

Belnet can provide both your main and additional leased lines. These are always of the type 'transparent Ethernet'. Belnet is responsible for the implementation and management of the Belnet Leased Line. Moreover, Belnet also handles the support for the leased line. When you decide to activate the service, Belnet will install a Belnet Service Router in your data centre or server room. This router makes it easier for your organisation to install extra Belnet services.

Already connected to our network?
Then your organisation can also opt for optimum connectivity. If you already have a leased line from another telecoms operator, you can switch to a Belnet Leased Line.

- **Technical expertise**
  Belnet has experience in implementing technical, complex solutions, such as redundant and secure connections. Furthermore, Belnet chooses services based on price and quality.
- **One stop**
  One contact, one account and one provider for your Internet connectivity and bandwidth. Belnet also takes responsibility for all the steps, including installation, invoicing, support and maintenance. Thus Belnet has full control and responsibility for its network until it reaches your organisation.
- **Quality guarantee**
  Thanks to high quality service, simple implementation and high availability, the Belnet Leased Line is the ideal solution for existing and future services.
- **Cost saving**
  A Belnet Leased Line reduces the steps to be taken, and lowers your organisation's costs.
- **Belnet Service Desk 24/7**
  Guarantees comprehensive follow-up and fast response times in case of emergency.

Both IPv4 and IPv6 possible

Belnet offers a standard connection based on both IPv4 and IPv6. IPv6 is the latest generation Internet Protocol and therefore the successor to IPv4.

More than just a connection

Belnet offers you much more than just a connection. In addition to the basic connection, you also receive numerous standard services at no extra charge. And Belnet provides various Plus services that offer you more comfort and/or guarantee the security of your connection. The Point-to-Point connection, Multipoint, Intenational Connectivity, Media Transport Service and Antispam Pro are but a few examples.

Further information on Internet Connectivity

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Belnet
dedicated connectivity