



DigitalNetwork datacenter information

Not All Data centre's Facilities are Created Equal

DigitalNetwork has invested heavily in providing redundancy in its network and colocation facility to reduce possible fail-points to a minimum. Below are some of the features that set DigitalNetwork's facilities apart from many of our competitors:

Multihoming (Bandwidth Redundancy):

Multihoming is where an ISP uses 2 or more upstream bandwidth providers. In DigitalNetwork's case our bandwidth is sourced through three separate upstream suppliers to provide among the highest levels of bandwidth redundancy available in NZ. In comparison, some of our competitors are totally dependent on only one upstream provider.

Multihoming is extremely important because from time-to-time an upstream provider will have either a total outage or a problem that will affect its ability to supply adequate bandwidth to its downstream ISP customers. However DigitalNetwork's multihoming means that if one of our suppliers has an outage, we have 2 other suppliers able to provide continuity of bandwidth supply. We source a similar amount of bandwidth from each upstream supplier so that if any one upstream has an outage, we lose only a maximum of a third of our international bandwidth supply.

Bandwidth Pricing:

DigitalNetwork currently employs a volume based method of charging for its bandwidth or traffic, which is very advantageous to its clients. It means that colocation space clients are invoiced on the basis of burstable utilisation over a given month. E.g. A client paying for 128k of international bandwidth is not necessarily rate limited to 128k of bandwidth access, but potentially has the ability to burst up to 1mbps or more if necessary according to demand made on the client's servers. (Note: A rate limited option is available - speak to our account managers to discuss the best option to suit your needs).

Bandwidth Diversity:

The diversity of our bandwidth supply provides another major benefit to DigitalNetwork customers. It provides DigitalNetwork with direct paths into several locations worldwide which means fast, low latency (i.e. reduced lag) connections to Australia, Asia and the USA.

Network Configuration:

DigitalNetwork provides redundancy throughout our IP network, so the network is very reliable. Our data centre has the type of layout and configuration that you would expect to find in any advanced internet facility, with separate communications, colocation, UPS and diesel generator rooms.

Centralised UPS:

Uninterrupted power supply (UPS) is provided by a centralised Chloride UPS system that is directly connected into the main power feed to the server cabinets. UPS battery cells can be replaced without any disruption to your servers. The UPS is maintained and tested by external specialists.

Auto-start Generator:

The data centre facility has a 150KVA diesel generator that automatically kicks into action within seconds in the event of interruption of the mains power supply into the data centre. The power supply system as a whole is very sophisticated, automatically checking for the cleanest power supply before deciding whether to opt for mains, UPS or generator. The generator is regularly maintained and tested by external specialists.

Under-floor Air-Conditioning:

The data centre cooling system features HVAC (high velocity air conditioning) humidity controlled air conditioning based around process coolers and a large external redundant water chiller. The air is circulated via the raised floor system in the colocation areas for maximum effectiveness in keeping your servers at the optimal temperature. (i.e. 20° C + or - 3°) The system is capable of cooling up to 4 times the space of the entire 1200 sq m data centre. The air-conditioning system is regularly maintained and tested by external specialists.

Telecommunications:

Telecom New Zealand and TelstraCLEAR supply the 2 x 155mb independent fibre connections that connect the data centre to the backbone of the internet. These connections are in addition to copper capacity from both, providing full Telco diversity through redundant entry ducts to the building. (i.e. The fibre and copper connections from the respective Telcos enter the building from opposite directions. In the event of one being damaged by roadworks, the other is able to carry the full load).

Fire Detection:

The data centre has a VESDA (Very Early Smoke Detection Apparatus) fire detection system with three-stage alarm including direct connection to the Fire Brigade providing early warning of any fire risks. The fire station is less than a km from our facility.

Rittal Cabinets:

All collocated server(s) are housed in top-of-the-range, lockable and individually-keyed Rittal TS series cabinets, providing excellent physical security for your server. These cabinets have easy front and rear access, and moveable internal rails. Half rack (22U) and full rack (47U) options are available along with 24x7 client access. (Conditions Apply).

Access & Alarm System:

Access security is monitored 24x7 by a dedicated security firm. Customers with 24x7 access authority are issued with proximity cards and keys.