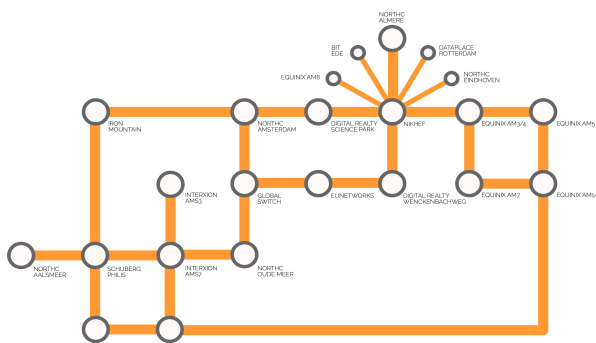# DC Connect Data Sheet

What if you could effortlessly extend your network and services to remote datacenters without building your own points-of-presence at those datacenters?

Now you can with the atom86 DC Connect service.

The atom86 DC Connect service offers a WAN that benefits of Ethernet technology normally limited to a LAN. The DC Connect service can be added to any access type end circuit. This allows organizations to use a complete Ethernet network at minimal cost. The DC Connect service enables customers to manage their own routing within their own network and their own network management, allowing ultimate control and safety.

The DC Connect service is a redundant connection service based on Ethernet-over-MPLS (EoMPLS). The service can be used to create multiple high bandwidth connections to e.g. customers, partners, and suppliers at other datacenters without the need to build a Point of Presence at the remote datacenter.

Benefits
- Creates a trusted L2 Ethernet network interface for customers.
- Integrates easily with existing networks and services.
- Customers retain full control.
- Supports customer assigned IPv4/6
- Supports existing Ethernet protocols.
- Performance monitoring through customer portal.

DC Connect configurations
- Port-based. This is a DC Connect between two dedicated ports and is completely transparent.
- VLAN-based. This form of DC connect can support multiple connections on a single port. To transport multiple 'customer owned' VLANs over the VLAN-based DC Connect service the customer premises equipment must support Q-in-Q (802.1ad).

Redundancy
The atom86 DC Connect service is delivered with full redundancy, which means that in case of failure in the atom86 backbone an automatic switchover will take place restoring the DC Connect functionality.

Interconnections
All interconnections between the customer equipment and the atom86 network are Ethernet based:
- n*GigE-RJ45 UTP
- n*GigE-SX MultiMode fiber
- n*GigE-LX SingleMode fiber
- n*10GE-LR SingleMode fiber

Technical specifications
- Unlimited LAN MAC addresses for clients.
- Supported encapsulations IEEE 802.3, 802.1Q, 802.1ad.
- Standard frame size (MTU) 2000 (max. 9000)
- Access to multiple DC connect services on a single port (VLAN-based)

Locations
The atom86 DC Connect service is available at:
- BIT, Ede (max 5Gbps)
- Dataplace Rotterdam, Alblasserdam (max 5Gbps)
- Digital Realty Science Park (AMS17), Amsterdam
- Digital Realty Wenckebachweg (AMS18), Amsterdam
- Equinix AM1/2, Amsterdam
- Equinix AM3/4, Amsterdam
- Equinix AM5, Amsterdam
- Equinix AM6, Amsterdam (via Equinix AM5)
- Equinix AM7, Amsterdam
- Equinix AM8, Amsterdam (max 5Gbps)
- euNetworks, Amsterdam
- GlobalSwitch, Amsterdam
- Interxion AMS3, Amsterdam
- Interxion AMS5, Schiphol-Rijk
- Interxion AMS7, Schiphol-Rijk
- Interxion AMS8/10, Rozenburg
- Interxion AMS9, Amsterdam (via NIKHEF)
- Iron Mountain, Haarlem
- NIKHEF, Amsterdam
- NorthC Aalsmeer, Aalsmeer
- NorthC Almere, Almere
- NorthC Amsterdam, Amsterdam
- NorthC Delft, Delft (upon request)
- NorthC Eindhoven, Eindhoven (max 5Gbps)
- NorthC Nieuwegein, Nieuwegein (max 5Gbps, Q1 2023)
- NorthC Schiphol, Oude Meer
- NorthC Zestienhoven, Rotterdam (max 5Gbps, Q1 2023)
- Schuberg Philis, Schiphol-Rijk

Maintenance window
The standard maintenance window for Scheduled Maintenance for the atom86 network is every working day between 00:00-02:00hrs Dutch local time. The length of the maintenance window may vary depending on the activities to be performed during the maintenance window.

Maintenance windows will be announced 5 days in advance stating start, end, activities to be performed and the possible impact on customer connections. Emergency Maintenance will be announced at least 15 minutes in advance, if possible, or directly afterwards explaining the emergency.