# IP Connect Data Sheet

### Introduction
atom86 provides cost effective, high speed, redundant, Layer2 and Layer3 (IP Transit) services in the Netherlands.

### Locations
The atom86 IP Connect services are available from 70+ datacenters in the Netherlands. At the following 31 datacenters you can get a direct connection:
- BIT, Ede
- Dataplace Rotterdam, Alblasserdam
- 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
- euNetworks, Amsterdam
- GlobalSwitch, Amsterdam
- Interxion AMS3, Amsterdam
- Interxion AMS5, Schiphol-Rijk
- Interxion AMS7, Schiphol-Rijk
- Interxion AMS8/10, Rozenburg
- Interxion AMS9 (SARA), Amsterdam (via NIKHEF)
- Iron Mountain (Evoswitch), Haarlem
- NIKHEF, Amsterdam
- NorthC Aalsmeer, Aalsmeer
- NorthC Almere, Almere
- NorthC Amsterdam, Amsterdam
- NorthC Delft, Delft
- NorthC Eindhoven, Eindhoven
- NorthC Nieuwegein, Nieuwegein
- NorthC Oude Meer, Oude Meer
- NorthC Zestienhoven, Zestienhoven
- Schuberg Philis, Schiphol-Rijk

### Hardware
All routing is performed on our Juniper MX960 core routers at Schuberg Philis and NIKHEF. All customer connections are delivered on redundantly connected switches.

### Interconnections
All interconnections between the customer equipment and the atom86 network are Ethernet based:
- nx1GE-Copper/Fiber
- nx10GE-Fiber
- nx100GE-Fiber

Dual BGP or VRRP are standard supported at no additional charge. IPv4 and IPv6 are delivered on the same port at no additional charge.

### Maintenance window
The standard maintenance window for Scheduled Maintenance for the atom86 network is every working day between 23:00-02:00hrs 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.

### BGP Communities
The atom86 networks supports BGP Communities allowing customer to have influence on the routing of their prefixes over the atom86 network.

The following BGP Communities are in place:
- Blackhole — 8455:5990
- Transit Backup — 8455:5060
- Transit Not Preferred — 8455:5180
- Transit Preferred — 8455:5220
- Do Not Announce to AS3356 — 8455:5510
- Prepend 1x to AS3356 — 8455:5511
- Prepend 2x to AS3356 — 8455:5512
- Prepend 3x to AS3356 — 8455:5513
- Do Not Announce to AS1299 — 8455:5515
- Prepend 1x to AS1299 — 8455:5516
- Prepend 2x to AS1299 — 8455:5517
- Prepend 3x to AS1299 — 8455:5518
- Do Not Announce to AS2914 — 8455:5523
- Prepend 1x to AS2914 — 8455:5524
- Prepend 2x to AS2914 — 8455:5525
- Prepend 3x to AS2914 — 8455:5526
- Do Not Announce to Peers — 8455:5000
- Prepend 1x to Peers — 8455:5001
- Prepend 2x to Peers — 8455:5002
- Prepend 3x to Peers — 8455:5003
- BGP Graceful Shutdown — 65535:0

### Providers
atom86's current providers of upstream IPv4 and IPv6 connectivity:
- Lumen — AS3356
- Arelion — AS1299
- NTT — AS2914

### Internet Exchanges
atom86 exchanges traffic via direct peering at the following Internet Exchanges:
- AMS-ix
- NL-ix
- SPEEDIX
- Equinix IX Amsterdam
- LINX
- DE-CIX
- Asteroid
- INTER-IX

### Network Characteristics
- Packetloss: <0.1%
- RTT: <20ms