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 Transit and P2P services are available from the following locations:
- BIT, Ede
- Digital Realty ADT (TC1), Amsterdam
- Digital Realty ABP (TC4), Amsterdam
- Equinix AM1/2, Amsterdam
- Equinix AM3/4, Amsterdam
- Equinix AM5 (TC5), Amsterdam (via Equinix AM7)
- Equinix AM6 (TC6), Amsterdam (via Equinix AM7)
- Equinix AM7 (TC2), Amsterdam
- Equinix AM8 (TC3), Amsterdam
- euNetworks, Amsterdam
- Evoswitch, Haarlem
- GlobalSwitch, Amsterdam
- Interxion AMS1/2/4, Amsterdam
- Interxion AMS3, Amsterdam
- Interxion AMS5, Schiphol-Rijk
- Interxion AMS7, Schiphol-Rijk
- Interxion AMS8, Rozenburg
- Interxion AMS9 (SARA), Amsterdam (via NIKHEF)
- NIKHEF, Amsterdam
- NL|DC Amsterdam 1, Oude Meer
- NL|DC Amsterdam 3, Almere
- Schuberg Philis, Schiphol-Rijk
- Switch Datacenter, Amsterdam
- TDCG, Amsterdam
- TDCG, Delft

Interconnections
All interconnections between the customer equipment and the atom86 network are Ethernet based:
- GigE-Copper/Fiber
- 10GE-Fiber
- 100GE-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.

Hardware
All routing is performed on our Juniper MX960 3D core routers at Schuberg Philis and NIKHEF. All customer connections are delivered on redundantly connected switches.

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.

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 NTT — 8455:5500
- Prepend 1x to NTT — 8455:5501
- Prepend 2x to NTT — 8455:5502
- Prepend 3x to NTT — 8455:5503
- Do Not Announce to GTT — 8455:5505
- Prepend 1x to GTT — 8455:5506
- Prepend 2x to GTT — 8455:5507
- Prepend 3x to GTT — 8455:5508
- Do Not Announce to CenturyLink — 8455:5510
- Prepend 1x to CenturyLink — 8455:5511
- Prepend 2x to CenturyLink — 8455:5512
- Prepend 3x to CenturyLink — 8455:5513
- Do Not Announce to TeliaSonera — 8455:5515
- Prepend 1x to TeliaSonera — 8455:5516
- Prepend 2x to TeliaSonera — 8455:5517
- Prepend 3x to TeliaSonera — 8455:5518
- Do Not Announce to Init7 — 8455:5519
- Prepend 1x to Init7 — 8455:5520
- Prepend 2x to Init7 — 8455:5521
- Prepend 3x to Init7 — 8455:5522
- 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 IPv6
The atom86 network runs dual stack and is therefore able to also provide IPv6 transit. The current providers of upstream IPv6 connectivity to atom86 are:
- INIT7 — AS13030
- NTT — AS2914
- Telia — AS1299
- GTT — AS3257
- CenturyLink — AS3356

Providers IPv4
The current providers of upstream IPv4 connectivity are:
- NTT — AS2914
- Telia — AS1299
- GTT — AS3257
- CenturyLink — AS3356

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