IP Transit Data Sheet

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

Locations
The atom86 IP Transit and P2P services are available from the following locations:
- NIKHEF, Amsterdam
- Schuberg Philis, Schiphol-Rijk
- Interxion AMS1/2/4, Amsterdam
- Interxion AMS3, Amsterdam
- Interxion AMS5, Schiphol-Rijk
- Interxion AMS7, Schiphol-Rijk
- Interxion AMS8, Rozenburg
- Equinix AM1/2, Amsterdam
- Equinix AM3, Amsterdam (via NIKHEF)
- Equinix AM5 (TC5), Amsterdam (via Equinix AM7)
- Equinix AM6 (TC6), Amsterdam (via Equinix AM7)
- Equinix AM7 (TC2), Amsterdam
- Equinix AM8 (TC3), Amsterdam
- Digital Realty ADT (TC1), Amsterdam
- Digital Realty ABP (TC4), Amsterdam
- euNetworks, Amsterdam
- Evoswitch, Haarlem
- GlobalSwitch, Amsterdam
- TDCG, Amsterdam
- SARA, Amsterdam (via NIKHEF)

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

RIPE LIR
Schuberg Philis is an official RIPE LIR. Below are the details regarding the atom86 network:
- AS8455
- IPv4: 31.22.80.0/21. 95.142.96.0/20, 178.237.32.0/20, 185.27.16.0/22
- IPv6: 2a00:1188::/32

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.

The maintenance window 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 OpenPeering	8455:5510
Prepend 1x to OpenPeering	8455:5511
Prepend 2x to OpenPeering	8455:5512
Prepend 3x to OpenPeering	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

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
- TeliaSonera AS1299
- GTT AS3257

Providers IPv4
The current providers of upstream IPv4 connectivity are:
- NTT AS2914
- Open Peering AS20562
- TeliaSonera AS1299
- GTT AS3257

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