

IP Transit 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
- 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.

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.

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

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