Colocation Data Sheet

Introduction
atom86 together with Schuberg Philis B.V. provides colocation services in the Schuberg Philis datacenter in Schiphol-Rijk, The Netherlands. The usable area of the datacenter measures 2800m2.

Security
The datacenter is guarded 24 x 7 by security guards patrolling the building, monitoring the CCTV and other security related systems. The CCTV system records all movements in the data center using more than 50+ motion activated camera units. The entrance to the center is guarded by a security guard, day and night, working from a bullet-proof loge. Customers are on an access list and picture identification (drivers license or passport) is required to be granted access to the building. Access to rooms within the data center is monitored and controlled by a badge reading system.

Power
The datacenter has redundant private high voltage connections to the nearest power distribution station with a total maximum capacity of six MVA. To provide continuous and clean power to the systems running in the data center, four Hitec® Continues Power Systems (CPS) are installed, one of which is dedicated as a reserve backup to support any of the other three CPS units. A CPS unit consists of an electric motor, electric generator and a 16-cylinder Mitsubishi diesel engine with an inductive flywheel. This flywheel is continuously spinning to 'clean' the power from spikes and dips and to ensure that no phase or amplitude discontinuities occur if the power provided by the electricity company fails.

Hitec diesel rotary UPS systems protect against 100% of all power quality problems. The systems supplies uninterruptible, continuous and conditioned power for mission critical processes. An UPS system from Hitec Power Protection stands for reliability. It filters the utility power continuously and protects against power interruptions in a simple and effective manner.
The unique concept and design maximizes reliability and provides our customer with the highest available uptime. The diesel rotary UPS can provide back-up power for an indefinite time period.

A 36.000 liter underground diesel storage tank guarantees that if the electricity company's service fails we can run undisturbed for over 3 days at 100% occupancy.

The power for all computer rooms is provided by a Busbar® system. Schuberg Philis guarantees 2300 watts per rack through dedicated 10 Amp circuits utilize wiring with independent neutral feeds and dual fed Critical Load Distribution boards. Of course, additional power allocation can be discussed, if required.

100% Power availability is guaranteed. The customer is responsible to redundantly connect customer's equipment both power feeds.

Fire Safety
In the data rooms a VESDA (Very Early Smoke Detection Alarm) system detects all airborne particles passing through the laser chamber and samples air every 5 seconds providing early alerting of fire threat.
Fire suppression in all data rooms is provided by an Argonite® fire suppression system. Argonite® extinguishes fire by physically removing oxygen from the atmosphere to a level where in a closed space almost all fires are extinguished in 30 to 45 seconds. The main advantage of Argonite® extinguishing is that it is not harmful to computer equipment as it is clean, odorless, non-toxic, non-corrosive and electricity non-conductive.

Cooling
Cooling is primary provided by Geothermal energy and free cooling. For backup there are roof-mounted Liebert-Hiross Super Chillers. These provide chilled water to the Air Conditioning Units in all equipment rooms. The cooling installation is completely 2N. These temperatures are maintained constant in every equipment room at 24°Celsius($\pm$ 4°C).
For cooling purpose hot and cold air are completely separated. Blind plate are available within the datacenter rooms to be used in customer cabinets.

Building Management System
The datacenter is monitored and controlled by the BMS (Building Management System). Schuberg Philis technicians are alerted to any potential problems or actual changes in the environment.

Carriers
The datacenter is carrier neutral and has the following carriers available:

- atom86
- BT
- COLT
- euNetworks
- Eurofiber
- Interoute
- KPN
- NL-ix
- ReliNed
- Tele2/Versatel
- UPC
- Verizon

The datacenter also participates in the AMS-ix Partner Program (http://www.ams-ix.net/partner-program/). The connectivity towards the AMS-ix is provided via an atom86 VPLS connection.

Remote Hands and Eyes
Customers collocated in the Schuberg Phils datacenter can make use of our basic on-site first-line support - all under the instruction and responsibility of the customer. For example power on/off, connect, disconnect, reseat or replace cables, visual inspection of devices, viewing of monitors.

Certification
The Schuberg Philis datacenter is ISO27001:2005 certified.