Colocation Factsheet ODC21

upstreamNet
backbone connectivity - colocation

Factsheet on the ODC data center

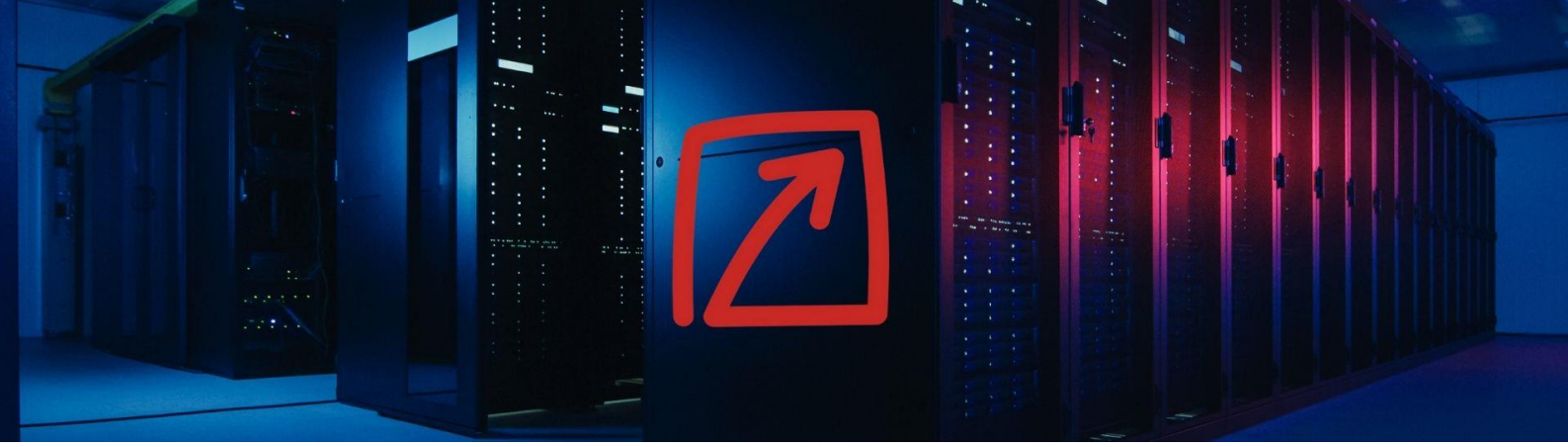
Address: Richard-Neutra-Gasse 10, 1210 Vienna

Information about the data center ODC21 (On Demand Center)

The On Demand Data Center (ODC21) was opened after being acquired by IBM in the fall of 2006 with an area of 770 square metres. Due to the enormous demand, the data center was fully expanded by the end of March 2009. Currently, approx. 3.000 square metres of floor space is available at this site.
As part of the 2009 expansion 230 square metres were added in the ODC21 building and 350 square metres of space were added in the ODC21 neighbouring building for emergency working spaces. The data center which is currently **ISO 27001** certified was reviewed in accordance with **ISAE 3402** (formerly SAS70) and offers a comprehensive resource pool with redundant design of the building services infrastructure.

Facts:

- Built-out data center area: approx. 3.000 square metres
- Infrastructure technical area: 1.560 square metres
- Side rooms, reception and offices: 600 square metres



Safety:

The following safety functions, among others, are available in the RDC:

- Early fire detection with active suction and sensitive detection
- Water outlet monitoring in the data center
- Access control system ("bank data center")
- Video surveillance with monitoring of the outer building envelope & all access areas
- Intrusion protection: monitoring of all external doors and windows
- Monitoring of all security systems via the alarm control panel
- Monitoring of all fire detectors & control of the extinguishing system from the fire alarm control panel

Extinguishing and fire alarm system:

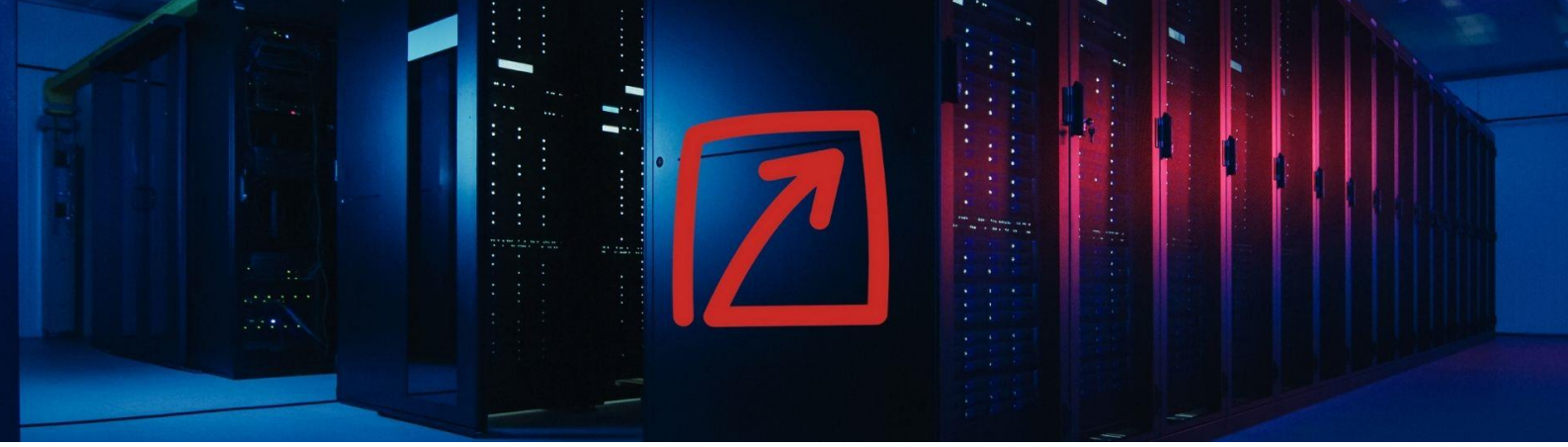
- 2-detector dependent INERGEN extinguishing gas systems
- Flooding areas: data center areas incl. raised floor area and technical areas
- Fire detection: automatic fire alarm system / optical or thermal (entire building)

Power supply and redundancy:

- two independent supply rails A+B, powered by two transformers, each UPS-supported
- E-distributors are fused via STS (static transfer switch)
- geo-redundant supply line Wienstrom: 2 x 20kV
- installed power: 2 x 4 MVA
- NEA emergency diesel generators (+1 2013): 3x 2 MVA
- bridging period: at least 72 hours
- UPS Uninterruptible Power Supply System,
  both power feeds UPS-secured: 8x 500 kVA
  new UPS rails C and D additional 6x 200 kVA
- no supply with DC voltage (i.e. no DC supply)

Several diesel generators are connected in the data center to secure the uninterruptible power supply (UPS). If the external power supply collapses, the generators take over the power supply to the data center until the regular feed is stable again.

The diesel gensets with storage tanks with a capacity of 2x 50,000 litres together with the n+1 redundantly designed UPS system ensure maximum availability.



Climate system:

- installed capacity: 3.020 kW
- Chillers: 3x 637 kW and 2x 550 kW
- new chillers 6+7: additional 2x 550 kW
- Recirculating air-cooling units: 65 EDP air conditioning cabinets

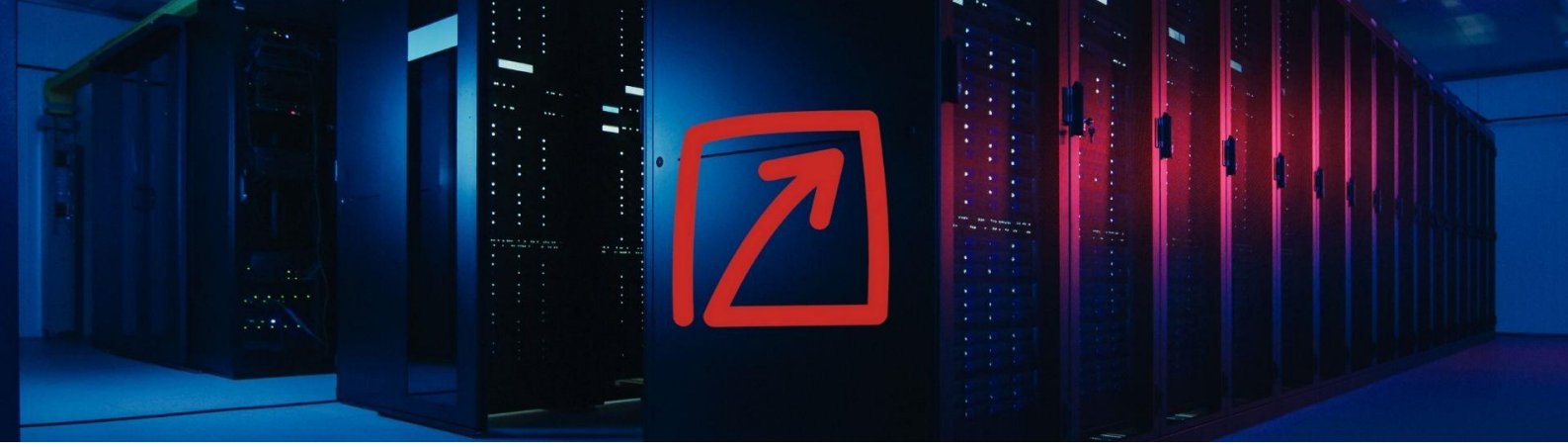
ODC21 & upstreamNet Connectivity

In addition to integrating the ODC21 into the Vienna backbone of upstreamNet VIX1 (University) - VIX2 (InterXion) – VIX3 (NTT) and RDC (data center Stadlau) and thus into the international networks of AS8218 & AS6461, we can provide individual wavelengths as well as direct connections for geo-redundant solutions.

In addition to the state-of-the-art building equipment, optional security measures such as redundancy in the machine itself, redundancy through mirroring and clustering to other data centers as well as protection against hackers (connection to the Internet) and internal security measures (manipulation) are also available.

Excerpt from the provider list (of third-party providers connected to the ODC21):

A1 Telekom Austria, AT&T, Cable Runner, Colt, GTT, Magenta Telekom (UPC, T-Mobile), PanTel, upstreamNet (AS8218, AS6461), Verizon, Wien Energie, Xpirio.



Current development plan

The modular expansion planning makes it possible to meet the customer's wishes up to an own cage area incl. access control. In addition to the standard connections 16A/230V and 32A/230V or 400V, the media fiber and copper to both provider rooms of the data center, in the ODC21 upstreamNet also offers placement options for racks up to a depth of 120cm. Details about setup and costs on request.