

DATACENTER CONSTRUCTION



Size	6.000 m ² DC space
Floor tile type	Heavy grade 600 × 600mm (standard)
Floor loading	1.200 Kg/m ² (standard)
Usable technical load	2 kW/m ² (customer tailored up to 4kW/m ²)
System availability	99,999% availability p.a. per SLA
Redundancy	2N, N+1 Concurrent Maintainable
Segregation of critical components	Cabling, Power, UPS, Batteries, switch boards, etc.
Temperature threshold	22°C +/- 4°C
Racking capacity	Individual racks in open colocation, private cages and private suites available
Construction	Fully modular Datarooms, Datacenter within DC

POWER



Electrical / Power	100% Certified Green Hydroelectric Power
Incoming power	Currently 7MW, upgradable to 14MW
Generators	2N (A + B), installed in separate locations
UPS	2N+1, installed in separate locations
Min. Battery time UPS	UPS 12 min at full load per branch, 2N
LV Switchgear	A & B System N+N
Fuel tanks	A & B, supply for min. 72 hours at full capacity
Power consumption metering	At transformers and component levels down to rack level (PDU level optional)
Rack	Installation with A+B Feed 2N redundancy. Standard Rack Power Density up to 3kVA,
Cabling	Premium Rack Power Density up to 10 kVA Redundant cabling with fully separated data and power conduits

MANAGEMENT



Centralized Management System with Comprehensive Fault, Performance and Capacity Management, Workflow Management and Ticketing	Cutting Edge DCIM System
	Management System Reporting
	Customized Reporting



COOLING

General Cooling Aspects	Cooling is supported by two separate internal water reservoirs. Free cooling and chillers provide additional cooling as required.
Cooling Redundancy Design	2N with 2N+1 for particular components
Room cooling units design	2N
Power / cooling provision	2 kW/m ² (standard), customizable for dedicated environments
Cooling technology	Redundant Monitored water cooling with Free-Cooling
Room cooling design	Cold aisle containment (standard)
Standard DC Room Cooling	Computer Room Air Handling (CRAH)
Specialized Cooling	High density Private Suites upon client request customised cooling, e.g. InRow Cooling



FIRE PROTECTION

Fire protection concept	Multi-layer, perimeter zones. Fire protection by zones with redundant fire detection units
Smoke detection	Very Early Smoke Detection (VESDA)
Fire alarm	Fully monitored automated detection and 24/7 alarming with direct forwarding to security authorities and support technicians
1st stage detection	High Sensivity Smoke Detecion (HSSD)
2nd stage	Alarming with direct connection to security authorities
3rd stage detection	Gas release, initiated by alarm system with double knock condition
Gas suppression	Inergen system for data rooms and colocation areas
Fire rating	Fire rated for in excess of 60 minutes



CONNECTIVITY

Diverse cable routing	Alternate entries into facility, through floor (power) and ceiling (data) to each room
Communication trunking	Multiple entry points
Fiber connectivity	Multiple and redundant Fibre lines within separate conduits (2N)

ACCESS/SECURITY

- Seamless Multilayer Security concept applied on perimeter security zones, from outside area to rack level
- Personalized Electronic Rack Lock with dedicated access card
- Access Log and Intrusion Alarms
- Armed access areas and gates with direct connection to security authorities
- CCTV supervision systems with managed cameras covering all critical areas and access zones
- Access Tracking down to rack level