



DATACENTER CONSTRUCTION

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|---|---|
| Size | 10.000 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 (client tailored up to 3KW/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 room sizes for placement of 20 to 200 racks available or as required by client |
| Construction | Fully modular Datarooms, Datacenter within DC |



POWER

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| Electrical / Power | 100% Certified Carbon Neutral Hydroelectrical Power |
| Power supply | dual separate power conduits for site supplies |
| Incoming power | Grid 11kV with up to 7MW, upgradable to 14MW |
| Generators | 2N (A + B), installed in separate locations |
| UPS | 2N+1, installed in separate locations |
| Min. Battery time | 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) |
| Standard Rack | Installation with A+B Feed 2N redundancy up to 3kVA (customizable upon request) |
| Cabling | Redundant cabling, cabling conduits, data and power separated Cabling and PDF installed up to +1MW 2N (A+B Feed) |



MANAGEMENT

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| Centralized Management Systems | Comprehensive fault, performance and capacity management, workflow management and ticketing |
| Reporting | Management system and customized |



COOLING

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| General Cooling Aspects | Cooling with two separate, redundant water reservoirs used as primary cooling circuit. Heat pumps redundant, cold water supply redundant |
| Cooling Redundancy Design | 2N with 2N+1 for particular components |
| Room cooling units design | 2N |
| Power / cooling provision | 2 KW/m ² (standard), customizable and upon request and if for dedicated suites |
| Cooling technology | Monitored water cooling with Freecooling |
| Room cooling design | Monitored cold aisle containment (standard) |
| Standard DC Room Cooling | CRAC units (Computer Room Air Condition) |
| Specialized Cooling | High density Private Suites upon client request customized CRAC or InRow cooling |



FIRE PROTECTION

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| 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 | HSSD Aspiration (VESDA) |
| 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

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| Diverse cable routing | Alternate entries into facility, through floor (power) and ceiling (data) to each room |
| Comms trunking | Multiple entry points |
| IP connection | Redundant fibre lines within separate conduits (2N) |
| NOC | 24/7 supervision with reporting and active bandwidth measurement |