

OCP Ready Data Center Site Assessment		Borealis Data Center BLD-DC, B52		
	Self Assessment Status:	COMPLETE-MEETS REQUIREMENTS		
	Data Center Location Name	Blönduós, building B52		
	Data Center Location Address	Blönduós, Iceland		
	Site Description: IT Technical Space (White Space) Area	2 whitespaces, 370m2 each, concrete slab, direct-air cooled. Pre-installed PODs with 12 rows of 12 x 600x1200mm, 60U high racks, 22kW to 44kW each. Other configurations available with densities up to 88kW (single N). Hot air containment with a plenum above the racks to separate cold air from hot air and either exhaust or recirculate back through the CRAH units. Direct air cooling guarantees annualised PUEs of as low as 1.03		
	Site Description: Critical IT Power	Total power on site is 63MW. The facility is a building within this site and offers a total of 12MW in N setup or 6MW in 2N setup (interchangeable).		
	Site Description: Network Provider Availability	ISPs (Siminn, Nova, Vodafone, BTT, etc.), dark fiber		
	Site Description: Facility Features	100% year round free cooling, perimeter air cooling or liquid to the rack/POD, Security		
	Site Description: Other Services	Storage Area, Technical and office areas, smart hands, SLAs		
	Date Original Assessment is Completed	11/28/2022		
	Re-Assessment Date:	07/17/2024		
Ref:	REQUIREMENTS - Attribute (Must have an Optimum or Acceptable result)	Parameter	Result	Notes/ Actual Parameters
1.0	ACCESS			
1.0-A	Building Access	2. Road level with step and threshold free access	Acceptable	
1.0-B	Delivery pathway, Loading dock to Goods in	2. ≥2.75m (108in) H x ≥1.2m (48in) W unobstructed access and threshold free	Acceptable	Separate Loading Dock/Storage Area connected to the building via a service corridor.
1.0-C	Delivery pathway, Goods in to White space	1. ≥2.4m (96in) H x ≥1.8m (72in) W unobstructed access and threshold free	Optimum	
1.0-D	Corridor floor rolling load	1. ≥680kg (1500lb) (6.67kN)	Optimum	
1.0-E	Unboxing/pre-staging/storage area floor uniform load	1. ≥1221kg/m2 (250lb/ft2) (11.97kN/m2)	Optimum	
1.0-F	Unboxing/pre-staging/storage area floor concentrated load	1. ≥680kg (1500lb) (6.67kN)	Optimum	
1.1	RAMPS			
1.1-A	Gradient	1. Not Applicable - No Ramps Required	Optimum	
1.1-B	Width	1. Not Applicable - No Ramps Required	Optimum	
1.1-C	Landing area	1. Not Applicable - No Ramps Required	Optimum	
1.1-D	Railings	1. Not Applicable - No Railings Required	Optimum	
1.2	LIFTS / ELEVATORS			
1.2-A	Weight loading	1. Not Applicable - No Lift/Elevator Required	Optimum	
1.2-B	Door height	1. Not Applicable - No Lift/Elevator Required	Optimum	
1.2-C	Width	1. Not Applicable - No Lift/Elevator Required	Optimum	
1.2-D	Depth	1. Not Applicable - No Lift/Elevator Required	Optimum	
2.0	IT TECHNICAL SPACE (WHITE SPACE)			
2.0-A	Floor rolling load	1. ≥680kg (1500lb) (6.67kN)	Optimum	
2.0-B	Floor uniform load	1. ≥1221kg/m2 (250lb/ft2) (11.97kN/m2)	Optimum	
2.0-C	Floor concentrated load	1. ≥680kg (1500lb) (6.67kN)	Optimum	
2.0-D	Finished floor to ceiling height	2. ≥3.1m (124in)	Acceptable	
2.0-E	Access floor clearance	1. Not Applicable - No Access Floor	Optimum	concrete slab, no raised floor
2.1	ELECTRICAL			
2.1-A	Number of independent circuits to the rack	1. 2N (A+B)	Optimum	customer chooses N or 2N, either is available without any further complications. In 2N setup, the IT equipment is required to have 2 PSUs or the customer sets up an ATS in each rack
2.1-B	Maximum circuit capacity	1. 3ϕ 32A/230V	Optimum	
2.1-C	Circuit voltage	1. 400/230 VAC nominal	Optimum	
2.1-D	Circuit frequency	1. 47-63 Hz	Optimum	
2.1-E	Power receptacle / WIP Type	1. IEC60309 532R6W	Optimum	32A, 3ph, N, PE
2.1-F	Circuit receptacle location	1. Overhead	Optimum	
2.1-G	Upstream UPS options	1. UPS and non UPS feeds available	Optimum	
2.1-H	Rack-based batteries permitted	1. Allowed	Optimum	
2.1-I	Generator load acceptance time	1. <60 seconds	Optimum	no generators for customer IT equipment, only for own net and security systems
2.2	COOLING			
2.2-A	Rack airflow direction	1. Front to Back	Optimum	
2.2-B	Air containment methods	1. Hot aisle containment or rack chimney	Optimum	

2.2-C	Maximum rack density	1. $\geq 12\text{kw}$	Optimum	
2.2-D	Minimum cold aisle width	2. $\geq 1200\text{mm}$ (48in)	Acceptable	mostly 1.5m, but minimal is 1.2m
2.2-E	Minimum free width cold aisle (Inside cage)	1. $\geq 1200\text{mm}$ (48in)	Optimum	
2.2-F	Minimum hot aisle width	1. $\geq 1200\text{mm}$ (48in)	Optimum	
2.2-G	Inlet air conditions	2. ASHARE Recommended	Acceptable	
2.2-H	Air quality	2. Other (Notes required)	Acceptable	EN779 G4 filtering and continuous gas particulate monitoring
2.2-I	Temperature rise	1. ≥ 12 Deg C DeltaT	Optimum	
2.2-J	Cabinet blanking of open space	1. Mandatory	Optimum	
2.3	CABLING			
2.3-A	Cabling infrastructure pathways	1. Top and Front of rack fed	Optimum	customers are offered to host their network equipment in our MMR , anything goes from there . The MMR has backup up by diesel generators
2.3-B	Overhead Network Infrastructure containment levels	2. 2 Levels (Intra-Pod cabling; Inter-Pod cabling)	Acceptable	as per customer requirements
2.3-C	Fibre Type (if installed)	2. Installed Per Customer Requirements	Acceptable	
2.3-D	Fibre connection presentation (if installed)	2. Installed Per Customer Requirements	Acceptable	
	CONSIDERATIONS (For information only)	Parameter	Result	Notes
3.0	SERVICE			
3.0-A	Replacement PSU Modules	2. Secure storage available	Acceptable	
3.0-B	Replacement BBU Modules	2. Secure storage available	Acceptable	
3.0-C	Option to monitor PSUs and BBUs	1. Yes	Optimum	We currently offer monitoring services for equipment using Modbus or SNMP protocols
3.0-D	Remote hands for PSU and BBU replacement or expansion	1. Yes	Optimum	We currently offer remote hands services for standard IT equipment. Following customer requirements, we will train our DC Technicians for OCP specific hardware
3.0-E	Remote hands for OCP IT hardware replacement or expansion	1. Yes	Optimum	We currently offer remote hands services for standard IT equipment. Following customer requirements, we will train our DC Technicians for OCP specific hardware
4.0	EFFICIENCY			
4.0-A	Site Operations Standards	2. Other (Notes required)	Acceptable	As per customer SLA requirements
4.0-B	Site PUE Monitoring	1. Continuously monitored	Optimum	
4.0-C	Site Design PUE	1. < 1.2	Optimum	
4.0-D	Site Annualized PUE Current Achievement	1. < 1.2	Optimum	
4.0-E	Site WUE Monitoring	1. Not applicable (e.g. zero water requirement)	Optimum	Direct Air Cooling / No Water
4.0-F	Site CUE Monitoring	1. Continuously monitored	Optimum	
5.0	OPENNESS			
5.0-A	PUE Published	2. Available upon request	Acceptable	
5.0-B	Facility Design Drawings & Files	2. Available to view upon request	Acceptable	