OCP Ready COLO Facility Assessment	N01 Campus			Oslo Internet Exchange OS-IX			DK01 Campus			
Self Assessment Status: Data Center Location Name	COMPLETE-MEETS REQUIREMENTS N01 Campus (DCM122)			COMPLETE-MEETS REQUIREMENTS OS-IX			COMPLETE-MEETS REQUIREMENTS DX01			
Data Center Location Address	N01 Campus, Stølevegen 39, Vennesla - Norway			Hans Møller Gasmanns vei 9			Guldborgsundvej 14, 6705 Esbjerg, Denmark			
Site Description: White Space Area Site Description: Critical IT Power	1300sqm Built 4MW IT load infrastructure, 25MVA Site infrastructure installed, 132kV & 110kV supplies for 100MVA			8600sqm 8MVA available			512 sqm Bullt- Modular design 1MW modules 1 MW IT load infrastructure, 3,5MVA Site Infrastructure installed			
Che Danadallari, Naturali Danida Avallatilla	TELIA, TELENOR, Altibox, Bilx, Global connect, Tampnet, TDC,Electricky link			Multiple Carriers 60+ (list available upon request)			TDC, GlobalConnect. Tampnet			
Site Description: Network Provider Availability Site Description: Facility Features		rier Meet me rooms.	eparate DC buildings with first building constructed remaining 3sqkm land	3 story building with sep	3 story building with seperate energy center. Onsite offices and storage.					
Site Description: Other Services Date Original Assessment is Completed	Colocatori, salia to s	12th March 2021	emaning sagain land		12th March 2021			12th March 2021		
Re-Assessment Date: REQUIREMENTS - Attribute	Parameter	Result	Notes	Parameter	Result	Notes	Parameter	Result	Notes	
(Must have an Optimum or Acceptable result) ACCESS						Loading bay consisting of loading dock. Accessible				
Building Access	Loading dock with lift or leveler	Optimum		Loading dock with lift or leveler	Optimum	Loading Day Consisting or loading book. Accessible by truck or van. Access for Semil Tailler not possible. Trucks that are not able to deliver directly to dock level needs to be equipped with tail lift for ground delivery before goods can be transported in Loading dock: Length = 8150 mm	1. Loading dock with lift or leveler	Optimum		
Delivery pathway, Loading dock to Goods in	≥2.7m (108in) H x ≥2.4m (96in) W x ≥2.4m (96in) D unobstructed access and threshold free ≥2.≥2.3m (90in) H x ≥9m (36in) W with thresholds	Optimum		1. ≥2.7m (108in) H x ≥2.4m (96in) W x ≥2.4m (96in) D unobstructed access and threshold free 2. ≥2.3m (90in) H x ≥.9m (36in) W with thresholds	Optimum	Width = 3800mm 1150mm Height from ground = 1150mm Height from dock to covered area celling = 3500mm Door opening width from dock = 2400mm Door opening height from dock = 2500mm Max 120cm corridors in certain areas. Threshold on	1. ≥2.7m (108in) H x ≥2.4m (96in) W x ≥2.4m (96in) D unobstructed access and threshold free 2. ≥2.3m (90in) H x ≥.3m (36in) W unobstructed	Optimum		
Delivery pathway, Goods in to White space Corridor floor rolling load	(notes required) 1. ≥680kg (1500lb) (6.67kN)	Acceptable Optimum	Goods lifter into white space	(notes required) 1. ≥680kg (1500lb) (6.67kN)	Acceptable	one door for one zoned area, with mini ramp Up to 1500 kg/m² dependant on area within the	access and threshold free	Acceptable		
Unboxing/pre-staging/storage area floor uniform load	1. ≥1221kg/m2 (250lb/ft2) (11.97kN/m2)	Optimum	Solid floor	1. ≥1221kg/m2 (250lb/ft2) (11.97kN/m2)	Optimum	location 1500kg/m2	1. ≥680kg (1500lb) (6.67kN) 1. ≥1221kg/m2 (250lb/ft2)(11.97kn/m2)	Optimum	Floor type IV 1260 Jack load 23kN (safety factor 1,35) Divided load 18 kN/m2 default load.	
Unboxing/pre-staging/storage area floor concentrated load	1. ≥680kg (1500lb) (6.67kN)	Optimum		1. ≥680kg (1500lb) (6.67kN)	Optimum	750kg	1. ≥680Kg (1500lb) (6.67kn)	Optimum	,	
RAMPS Gradient	Not Applicable - No Ramps Required	Optimum		2. 1:12 - 1:8	Acceptable	No Ramp option available for High Power Rack density area, racks directly on slab (build to suit)	Not Applicable - No Ramps Required	Optimum		
Width	1. Not Applicable - No Ramps Required	Optimum		2. ≥1.2m (48in)	Acceptable	density area, racks directly on siab (build to suit)	Not Applicable - No Ramps Required 1. Not Applicable - No Ramps Required	Optimum		
Landing area	1. Not Applicable - No Ramps Required	Optimum		1. ≥1.5m x 1.5m (60in x 60in)	Optimum		1. Not Applicable - No Ramps Required	Optimum		
Railings LIFTS / ELEVATORS	1. Not Applicable - No Railings Required	Optimum		1. ≥900mm (36in) and <1000mm (40in)	Optimum		1. Not Applicable - No Railings Required	Optimum		
Weight loading	2. ≥500kg (1250lbs)	Acceptable	DC on Ground floor. Lift for first floor personnel only	1.≥1500kg (3300lbs)	Optimum	5000kg load capacity	1.≥1500kg (3300lbs)	Optimum		
Door height	1. Not Applicable - No Lift/Elevator Required	Optimum		1. ≥2.4m (96in) Lift /Elevator door opening height (not internal cabin)	Optimum	2,6M	1. Not Applicable - No Lift/Elevator Required	Optimum		
Width	Not Applicable - No Lift/Elevator Required	Optimum		1. ≥1.5m (60in) Unobstructed door opening width	Optimum	2,4M Lift (Inside measurements):	1. ≥1.5m (60in) Unobstructed door opening width	Optimum		
Depth	1. Not Applicable - No Lift/Elevator Required	Optimum		1. ≥1.5m (60in) Unobstructed cabin depth	Optimum	Length = 3850 mm Width = 3700mm	1 24 5 - 150 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Optimum		
WHITE SPACE						Height = 2990mm	1. ≥1.5m (60in) Unobstructed cabin depth			
Floor rolling load	1. ≥680kg (1500lb) (6.67kN)	Optimum		1. ≥680kg (1500lb) (6.67kN)	Optimum	750kg	1. ≥680Kg (1500lb) (6.67kn)	Optimum		
Floor uniform load Floor concentrated load	1. ≥1221kg/m2 (250lb/ft2) (11.97kN/m2) 1. ≥680kg (1500lb) (6.67kN)	Optimum		1. ≥1221kg/m2 (250lb/ft2) (11.97kN/m2) 1. ≥680kg (1500lb) (6.67kN)	Optimum Optimum	1500kg/m2	1. ≥1221kg/m2 (250lb/ft2)(11.97kn/m2)	Optimum		
Finished floor to ceiling height	1. ≥4.5m (180in)	Optimum		2. ≥3.1m (124in)	Acceptable	750kg 3,3M at lowest points due to cross beams	1. ≥680kg (1500lb) (6.67kn) 2. ≥3.1m (124in)	Acceptable		
Access floor clearance	1. ≥900mm (36in) (if used for cooling)	Optimum		1. ≥450mm (18in) (if not used for cooling)	Optimum	600mm	1. ≥900mm (36in) (if used for cooling)	Optimum		
ELECTRICAL Number of independent circuits to the rack	1. 2N (A+B)	Optimum	4.0	1. 2N (A+B)	Optimum	A+B	1.28 (4.0)	Optimum	A+B	
Maximum circuit capacity	1. 3¢ 32A/230V	Optimum	A+B 400V TNS -> 3x 230V/32A	1. 3¢ 32A/230V	Optimum	400V TNS -> 3x 230V/32A	1. 2N (A+B) 1. 3¢ 32A/230V	Optimum	400V TNS -> 3x 230V/32A	
Circuit voltage	1. 400/230 VAC nominal	Optimum		1. 400/230 VAC nominal	Optimum		1. 400/230 VAC nominal	Optimum		
Circuit frequency	1. 47-63 Hz	Optimum	50Hz	1. 47-63 Hz	Optimum	50Hz	1. 47-63 Hz	Optimum	50Hz	
Power receptacle / WIP Type Circuit receptacle location	1. IEC60309 532R6W 1. Overhead	Optimum		1. IEC60309 532R6W 1. Overhead	Optimum		1. IEC60309 532R6W	Optimum Acceptable		
Upstream UPS options	2. UPS only feed available	Acceptable	Tap Off Box on Busbar	2. UPS only feed available	Acceptable	Tap Off Box on Busbar	Underfloor UPS only feed available	Acceptable	Tap Off Box on Busbar	
Rack-based batteries permitted	2. Not Allowed (Notes Required)	Acceptable	In a dedicated customer room then yes	2. Not Allowed (Notes Required)	Acceptable	In client dedicated hall then yes	2. Not Allowed (Notes Required)	Acceptable	Batteries are normally not permitted due to operating conditions in the WS. Some battery types requires ventilation and may be at risk in a common colocation environment. (In a shared colocation area batteries are not allowed, but in a dedicated client room they are)	
Generator load acceptance time	1. <60 seconds	Optimum		1. <60 seconds	Optimum		1. <60 seconds	Optimum		
COOLING Rack airflow direction	1. Front to Back	Optimum		1. Front to Back	Optimum		1. Front to Back	Optimum		
Air containment methods	Hot aisle containment or rack chimney	Optimum	We have three DC Halls. Hall one is hot ables containment with underfloor supply and ceiling void return to IEC. Hall two is Hdx Alsie Containment using inrow coolers. Hall three is a combination of Hot alsie containment using inrow units and Rear Door heat exchangers.	Hot/Cold able containment for all cabinets in white space	Acceptable	Multiple halls can be designed to accommodate client specific requirements	Hot/Cold aisle containment for all cabinets in white space	Acceptable	Cold aisle containment as standard. Underfloor supply and room return	
Maximum rack density	1. ≥12kw	Optimum	Mixed Hall 1 - 10kW Hall 2 & 3 above 12kW (MAX 60kW)	2. ≥8kw	Acceptable	Option for dedicated higher density areas	1. ≥12kw	Optimum		
Minimum cold aisle width	2. ≥1200mm (48in)	Acceptable	Hall 2 & 3 above 12kW (WMX bokW)	2. ≥1200mm (48in)	Acceptable	Option for customer requirement available	2. ≥1200mm (48in)	Acceptable		
Minimum free width cold aisle (Inside cage)	1. ≥1200mm (48in)	Optimum		1. ≥1200mm (48in)	Optimum		1. ≥1200mm (48in)	Optimum		
Minimum hot aisle width Inlet air conditions	1. ≥1200mm (48in) 1. ASHRAE Class A1 Allowable	Optimum		1. ≥1200mm (48in) 1. ASHRAE Class A1 Allowable	Optimum		1. ≥1200mm (48in)	Optimum		
	1. EN 779 G4 and F7 filtering & Gas particulate			1. EN 779 G4 and F7 filtering & Gas particulate			ASHRAE Class A1 Allowable EN 779 G4 and F7 filtering & Gas particulate			
Air quality	monitoring to the ANSI/ISA 74.04-1985 G severity levels	Optimum		monitoring to the ANSI/ISA 74.04-1985 G severity levels	Optimum		monitoring to the ANSI/ISA 74.04-1985 G severity levels	Optimum		
Temperature rise Cabinet blanking of open space	1. ≥12 Deg C DeltaT 1. Mandatory	Optimum	Demand for maximum 3% air leakage outside 19"	1. ≥12 Deg C DeltaT 1. Mandatory	Optimum	Demand for maximum 3% air leakage outside 19"	1. ≥12 Deg C DeltaT	Optimum	Demand for maximum 3% air leakage outside 19"	
CABLING		Орилип	area		- Optanum	area	1. Mandatory	- Jpdum	area	
Cabling infrastructure pathways	1. Top and Front of rack fed	Optimum	Option for further dedicated cable raceways	2. Top and Rear of rack fed	Acceptable	Top and Front feeding possible in dedicated areas Option for further dedicated cable raceways	2. Top and Rear of rack fed	Acceptable	Option for further dedicated cable raceways	
Overhead Network Infrastructure containment levels Fibre Type (if installed)	2. 2 Levels (Intra-Pod cabling; Inter-Pod cabling) 1. OS2 & OM4	Acceptable Optimum	possible in dedicated areas	2. 2 Levels (Intra-Pod cabling; Inter-Pod cabling) 1. OS2 & OM4	Acceptable Optimum	possible in dedicated areas	2. 2 Levels (Intra-Pod cabling; Inter-Pod cabling)	Acceptable	possible in dedicated areas	
Fibre connection presentation (if installed)	1. Interchangable LC Duplex and MPO	Optimum	High density fibre solution >=72pairs per U as standard	Interchangable LC Duplex and MPO	Optimum	High density fibre solution >=72pairs per U as standard	1. OS2 & OM4 1. Interchangable LC Duplex and MPO	Optimum	High density fibre solution >=72pairs per U as standard	
CONSIDERATIONS (For information only)	Parameter	Result	Notes	Parameter			Parameter			
SERVICE Replacement PSU Modules	2. Secure storage available	Acceptable	Replacement units/critical spares can be maintained	2. Secure storage available	Acceptable	Replacement units/critical spares can be maintained		Acceptable	Replacement units/critical spares can be maintained	
		-	on further agreement Replacement units/critical spares can be maintained	-		on further agreement Replacement units/critical spares can be held on	2. Secure storage available	•	on further agreement Replacement units/critical spares can be maintained	
Replacement BBU Modules Option to monitor PSUs and BBUs	Secure storage available No	Acceptable Acceptable	on further agreement	Secure storage available No	Acceptable Acceptable	further agreement	2. Secure storage available	Acceptable Acceptable	on further agreement	
Option to monitor PSUs and BBUs Remote hands for PSU and BBU replacement or expansion	2. No 1. Yes	Acceptable	Service management available through partners	2. No 1. Yes	Acceptable	Service management available through partners	2. No	Acceptable	Service management available through partners	
			Onsite Remote/Smart hands services available			Onsite Remote/Smart hands services available	1. Yes		Onsite Remote/Smart hands services available	
Remote hands for OCP IT hardware replacement or expansion EFFICIENCY	1. Yes	Optimum	Onsite Remote/Smart hands services available	1. Yes	Optimum	Onsite Remote/Smart hands services available	1. Yes	Optimum	Onsite Remote/Smart hands services available	
Site Operations Standards	2. Other (Notes required)	Acceptable	EN50600-3.1 Operators certified according to CDCTP level	2. Other (Notes required)	Acceptable	EN50600-3.1 Operators certified according to CDCTP level	3. Other (Notes required)	Acceptable	EN50600-3.1. Operators certified according to CDCTP level	
Site PUE Monitoring	1. Continuously monitored	Optimum	Data collection in high resolution captured on influx database	1. Continuously monitored	Optimum	Data collection in high resolution captured on influx database	2. Other (Notes required)	Acceptable	Data collection in high resolution captured on influx database	
Site Design PUE	1.<1.2	Optimum	Design PuE @ 1,2	2.<1.5	Acceptable	Design PuE @ 1,3	1. <1.2	Optimum	Design PuE @ 1,2	
Site Annualized PUE Current Achievement	2. Other (Notes required)	Acceptable		2.<1.5	Acceptable	1.27 in 2020	2.<1.5	Acceptable	Current measurement at 1,36	
Site WUE Monitoring	2. Other (Notes required)	Acceptable	Currently not Monitored, but implementation is under consideration for datahall 1 currently utilizing	2. Other (Notes required)	Acceptable			Acceptable		
Site CUE Monitoring	2. Other (Notes required)	Acceptable	IEC cooling approach	2. Other (Notes required)	Acceptable	Not Monitored	2. Other (Notes required)	Acceptable	Not Monitored	
OPENNESS			Not Monitored, but to be implemented	, 333 34-40)		Not Monitored, but to be implemented	2. Other (Notes required)	- Filedic	Not Monitored	
PUE Published	2. Available upon request	Acceptable		2. Available upon request	Acceptable		2. Available upon request	Acceptable		
Facility Design Drawings & Files	2. Available to view upon request	Acceptable		2. Available to view upon request	Acceptable		2. Available to view upon request	Acceptable		