

OCP Ready Colo Facility Site Assessment		Stellium DC1		
Self Assessment Status:	COMPLETE-MEETS REQUIREMENTS			
Data Center Location Name	Stellium Datacenters DC1			
Data Center Location Address	9 Cobalt Park Way, Wallsend, Tyne & Wear, NE28 9EJ			
Site Description: IT Technical Space (White Space) Area	4,256 Sq. M's			
Site Description: Critical IT Power	Tier III standard datacentre with 15MW of power of which IT power = 11MW, Design PUE of 1.2 for IT halls 2, 3 & 4. IT hall 1 has a design PUE of 1.24. Power = N+N, UPS N+N, Generators N+1, Chilled water system - Chillers N+1, CRAC units N+4, Pumps N+N.			
Site Description: Network Provider Availability	CLS 1 subsea cable landing stations linking USA with UK/mainland Europe and Ireland, CLS 2 subsea cable landing stations linking UK/Norway & mainland Europe, NCL-IX internet exchange, dual MMR's, 12 national network carriers, 144 fibre cable 40kM MAN around Newcastle to Stellium DC			
Site Description: Facility Features	100% green energy as standard, metered power to all clients, directly supplied from 275kV power grid, No uncontrolled power outages in Cobalt campus in 20 Years. No power reservation fees.			
Site Description: Other Services	NOC service - remote hands and technical support, build room, client storage, client hot desks			
Date Original Assessment is Completed	4/6/23			
Re-Assessment Date:				
REQUIREMENTS - Attribute (Must have an Optimum or Acceptable result)	Parameter	Result	Notes	
ACCESS				
Building Access	1. Loading dock with lift or leveler	Optimum	There is a loading dock in place with a leveller to facilitate roll off/roll on of client racks.	
Delivery pathway, Loading dock to Goods in	1. ≥2.7m (108in) H x ≥2.4m (96in) W x ≥2.4m (96in) D unobstructed access and threshold free	Optimum	The pathway from loading dock to white space is unobstructed 3M High X 4M wide and threshold free	
Delivery pathway, Goods in to White space	1. ≥2.4m (96in) H x ≥1.8m (72in) W unobstructed access and threshold free	Optimum	The pathway from the delivery bay to white space is unobstructed with no thresholds, 2.7M High X 1.8M wide doors enroute.	
Corridor floor rolling load	2. ≥459kg (1012lb) (4.5kN) (notes required)	Acceptable	20+kN (concrete floor), Sector 1 First floor 4.5kN, Sectors 2, 3 & 4 - 5kN, will require route plating.	
Unboxing/pre-staging/storage area floor uniform load	1. ≥1221kg/m2 (250lb/ft2) (11.97kN/m2)	Optimum	Ground floor 20+kN (concrete floor)	
Unboxing/pre-staging/storage area floor concentrated load	1. ≥680kg (1500lb) (6.67kN)	Optimum	20+kN (concrete floor)	
RAMPS				
Gradient	1. Not Applicable - No Ramps Required	Optimum		
Width	1. Not Applicable - No Ramps Required	Optimum		
Landing area	1. Not Applicable - No Ramps Required	Optimum		
Railings	1. Not Applicable - No Railings Required	Optimum		
LIFTS / ELEVATORS				
Weight loading	1. ≥1500kg (3300lbs)	Optimum	3500kg Lift	
Door height	1. ≥2.4m (96in) Lift /Elevator door opening height (not internal cabin)	Optimum	2700MM	
Width	1. ≥1.5m (60in) Unobstructed door opening width	Optimum	1800MM	
Depth	1. ≥1.5m (60in) Unobstructed cabin depth	Optimum	3000MM	
IT TECHNICAL SPACE (WHITE SPACE)				
Floor rolling load	1. ≥680kg (1500lb) (6.67kN)	Optimum	Sector 1 - 4.5kN Sectors 2, 3 & 4 - 5kN	
Floor uniform load	1. ≥1221kg/m2 (250lb/ft2) (11.97kN/m2)	Optimum	Sector 1 - 12kN Sector 2, 3 & 4 - 20kN	
Floor concentrated load	1. ≥680kg (1500lb) (6.67kN)	Optimum	Sector 1 - 4.5kN per 25MM ² Sector 2, 3 & 4 - 5kN	
Finished floor to ceiling height	2. ≥3.1m (124in)	Acceptable	Sector 1 6M First Floor, Sector 2 - 4M first floor sectors 3&4 3.5M Ground floor	
Access floor clearance	2. <900mm (36in) (if used for cooling notes required)	Acceptable	825MM clear internal depth	
ELECTRICAL				
Number of independent circuits to the rack	1. 2N (A+B)	Optimum	Overhead busbars deployed in N+N layout	
Maximum circuit capacity	1. 3φ 32A/230V	Optimum	63A single/3 phase	
Circuit voltage	1. 400/230 VAC nominal	Optimum	400/230V	
Circuit frequency	1. 47-63 Hz	Optimum	50Hz	
Power receptacle / WIP Type	1. IEC60309 532R6W	Optimum	IEC60309 532R6W	
Circuit receptacle location	1. Overhead	Optimum	Overhead Busbars	
Upstream UPS options	1. UPS and non UPS feeds available	Optimum	UPS & Non UPS available	
Rack-based batteries permitted	1. Allowed	Optimum	Agreed	
Generator load acceptance time	1. <60 seconds	Optimum	power down fully restored 30 Seconds	
COOLING				
Rack airflow direction	1. Front to Back	Optimum	Agreed	

Air containment methods	1. Hot aisle containment or rack chimney	Optimum	Cold Aisle containment in sector 1. Hot Aisle Containment in sectors 2, 3 & 4.
Maximum rack density	1. $\geq 12\text{kW}$	Optimum	60+kW with rear door coolers, 15kW with air only
Minimum cold aisle width	1. $\geq 1500\text{mm}$ (60in)	Optimum	1800MM for 15kW air only
Minimum free width cold aisle (Inside cage)	1. $\geq 1200\text{mm}$ (48in)	Optimum	1800MM for 15kW rack deployment
Minimum hot aisle width	1. $\geq 1200\text{mm}$ (48in)	Optimum	1200MM for 15kW rack deployment
Inlet air conditions	1. ASHRAE Class A1 Allowable	Optimum	24°C
Air quality	2. Other (Notes required)	Acceptable	We provide fresh air filtration to F7 standard to pick up particles from 1 - 10 microns.
Temperature rise	1. ≥ 12 Deg C DeltaT	Optimum	Agreed
Cabinet blanking of open space	1. Mandatory	Optimum	Agreed
CABLING			
Cabling infrastructure pathways	1. Top and Front of rack fed	Optimum	Cabling infrastructure is overhead, with layout custom designed to customer floor layout and requirements.
Overhead Network Infrastructure containment levels	1. 3 Levels (Intra-Pod cabling; Inter-Pod cabling; OOB cabling)	Optimum	3 levels of overhead network cabling trays is the designed standard type. Trays are deployed per customer fit-out requirements.
Fibre Type (if installed)	2. Installed Per Customer Requirements	Acceptable	OS2 fiber is standard. Can also install alternative cabling plants custom per customer requirements.
Fibre connection presentation (if installed)	2. Installed Per Customer Requirements	Acceptable	LC Duplex and MPO is standard. Can also install alternative cabling plants custom per customer requirements
CONSIDERATIONS (For information only)	Parameter	Result	Notes
SERVICE			
Replacement PSU Modules	2. Secure storage available	Acceptable	Secure storage is available on site
Replacement BBU Modules	2. Secure storage available	Acceptable	Secure storage is available on site
Option to monitor PSUs and BBUs	1. Yes	Optimum	Options are available to monitor on our existing infrastructure
Remote hands for PSU and BBU replacement or expansion	1. Yes	Optimum	Available
Remote hands for OCP IT hardware replacement or expansion	1. Yes	Optimum	Available
EFFICIENCY			
Site Operations Standards	1. OCP Critical Facility Operations Guidelines	Optimum	We employ OCP Critical Facility Operations Guidelines. We employ emaint as our PPM asset based maintenance tool. This calenderises all maintenance activities and issues work orders against each activity. All PPM or reactive based maintenance is supported by RAMS. Clients are given full visibility of scheduled maintenance activity to coordinate/avoid potential conflicts.
Site PUE Monitoring	2. Periodically measured	Acceptable	We monitor our PUE on a monthly basis and report internally on the results.
Site Design PUE	2. < 1.5	Acceptable	Sector 1 - Design PUE 1.24, annualised at 1.35. Sectors 2, 3 & 4 Design PUE of 1.2 Annualised.
Site Annualized PUE Current Achievement	2. < 1.5	Acceptable	Sector 1 - Design PUE 1.24, annualised at 1.35. Sectors 2, 3 & 4 Design PUE of 1.2 Annualised.
Site WUE Monitoring	1. Continuously monitored	Optimum	Sector 1 - No cooling water required Sectors 2, 3 & 4 will employ continuous monitoring
Site CUE Monitoring	2. Periodically measured	Acceptable	We monitor our CUE on a monthly basis and report internally on the results
OPENNESS			
PUE Published	2. Available upon request	Acceptable	We carry out Monthly checks on our PUE and report internally on the findings
Facility Design Drawings & Files	2. Available to view upon request	Acceptable	We can make available our design drawings and files online upon request.