

	OCP Ready v1 Data Center 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 Development Category:	1. Multi-tenant Capacity Available	01/20/2026	
	Site Description: IT Technical Space (White Space) Area	4,256 Sq. M's		
	Site Description: Critical IT Power	Tier III standard datacentre with 30MW of power of which IT power = 25MW, Design PUE of sub 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., can support HPC racks up to 200kW plus, UK Government awarded DC campus AI Growth zone designation with accelerated grid connection up to 500MW of power, cheaper energy, streamlined planning process and local community initiatives		
	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. Nominated by UK Government as designated AI growth Zone with scalable power to 500MW, faster connection to UK grid, streamlined planning process, cheaper cost per kWhr		
	Site Description: Other Services	NOC service - remote hands and technical support, build room, client storage, client hot desks		
	Date Original Assessment is Completed	04/06/2023		
	Re-Assessment Date:	1/20/2026		
Ref:	REQUIREMENTS - Attribute (Must have an Optimum or Acceptable result)	Parameter	Result	Notes/ Actual Parameters
1.0	ACCESS			
1.0-A	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.
1.0-B	Delivery pathway, Loading dock to Goods in	1. ≥2.75m (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
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	The pathway from the delivery bay to white space is unobstructed with no thresholds, 2.7M High X 1.8M wide doors enroute.
1.0-D	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.
1.0-E	Unboxing/pre-staging/storage area floor uniform load	1. ≥1221kg/m2 (250lb/ft2) (11.97kN/m2)	Optimum	Ground floor 20+kN (concrete floor)
1.0-F	Unboxing/pre-staging/storage area floor concentrated load	1. ≥680kg (1500lb) (6.67kN)	Optimum	20+kN (concrete floor)
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. ≥1500kg (3300lbs)	Optimum	3500kg Lift
1.2-B	Door height	1. ≥2.4m (96in) Lift /Elevator door opening height (not internal cabin)	Optimum	2700MM
1.2-C	Width	1. ≥1.5m (60in) Unobstructed door opening width	Optimum	1800MM
1.2-D	Depth	1. ≥1.5m (60in) Unobstructed cabin depth	Optimum	3000MM
2.0	IT TECHNICAL SPACE (WHITE SPACE)			
2.0-A	Floor rolling load	1. ≥680kg (1500lb) (6.67kN)	Optimum	Sector 1 - 4.5kN Sectors 2, 3 & 4 - 5kN
2.0-B	Floor uniform load	1. ≥1221kg/m2 (250lb/ft2) (11.97kN/m2)	Optimum	Sector 1 - 12kN Sector 2, 3 & 4 - 20kN
2.0-C	Floor concentrated load	1. ≥680kg (1500lb) (6.67kN)	Optimum	Sector 1 - 4.5kN per 25MM² Sector 2, 3 & 4 - 5kN
2.0-D	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
2.0-E	Access floor clearance	2. <900mm (36in) (if used for cooling notes required)	Acceptable	825MM clear internal depth, used for cooling only
2.1	ELECTRICAL			
2.1-A	Number of independent circuits to the rack	1. 2N (A+B)	Optimum	Overhead busbars deployed in N+N layout
2.1-B	Maximum circuit capacity	1. 3ϕ 32A/230V	Optimum	63A single/3 phase
2.1-C	Circuit voltage	1. 400/230 VAC nominal	Optimum	400/230V
2.1-D	Circuit frequency	1. 47-63 Hz	Optimum	50Hz
2.1-E	Power receptacle / WIP Type	1. IEC60309 532R6W	Optimum	IEC60309 532R6W
2.1-F	Circuit receptacle location	1. Overhead	Optimum	Overhead Busbars
2.1-G	Upstream UPS options	1. UPS and non UPS feeds available	Optimum	UPS & Non UPS available
2.1-H	Rack-based batteries permitted	1. Allowed	Optimum	Agreed
2.1-I	Generator load acceptance time	1. <60 seconds	Optimum	power down fully restored 30 Seconds
2.2	COOLING			

2.2-A	Rack airflow direction	1. Front to Back	Optimum	Agreed
2.2-B	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.
2.2-C	Maximum rack density	1. ≥12kW	Optimum	60+kW with rear door coolers, 15kW with air only
2.2-D	Minimum cold aisle width	2. ≥1200mm (48in)	Acceptable	1800MM for 15kW air only
2.2-E	Minimum free width cold aisle (Inside cage)	1. ≥1200mm (48in)	Optimum	1800MM for 15kW rack deployment
2.2-F	Minimum hot aisle width	1. ≥1200mm (48in)	Optimum	1200MM for 15kW rack deployment, 1800MM with RDX
2.2-G	Inlet air conditions	1. ASHRAE Class A1 Allowable	Optimum	24°C
2.2-H	Air quality	2. Other (Notes required)	Acceptable	We provide fresh air filtration to F7 standard to pick up particles from 1 - 10 microns.
2.2-I	Temperature rise	1. ≥12 Deg C DeltaT	Optimum	Agreed
2.2-J	Cabinet blanking of open space	1. Mandatory	Optimum	Agreed
2.3	CABLING			
2.3-A	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.
2.3-B	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.
2.3-C	Fibre Type (if installed)	1. OS2 & OM4	Optimum	OS2 fiber is standard. Can also install alternative cabling plants custom per customer requirements.
2.3-D	Fibre connection presentation (if installed)	1. Interchangeable LC Duplex and MPO	Optimum	LC Duplex and MPO is standard. Can also install alternative cabling plants custom per customer requirements
	CONSIDERATIONS (For information only)	Parameter	Result	Notes
3.0	SERVICE			
3.0-A	Replacement PSU Modules	1. In stock onsite	Optimum	Secure storage is available on site
3.0-B	Replacement BBU Modules	1. In stock onsite	Optimum	Secure storage is available on site
3.0-C	Option to monitor PSUs and BBUs	1. Yes	Optimum	Options are available to monitor on our existing infrastructure
3.0-D	Remote hands for PSU and BBU replacement or expansion	1. Yes	Optimum	Available
3.0-E	Remote hands for OCP IT hardware replacement or expansion	1. Yes	Optimum	Available
4.0	EFFICIENCY			
4.0-A	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.
4.0-B	Site PUE Monitoring	2. Periodically measured	Acceptable	We monitor our PUE on a monthly basis and report externally and internally the results.
4.0-C	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.
4.0-D	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.
4.0-E	Site WUE Monitoring	1. Continuously monitored	Optimum	Sector 1 - No cooling water required Sectors 2, 3& 4 will employ continuous monitoring
4.0-F	Site CUE Monitoring	2. Periodically measured	Acceptable	We monitor our CUE on a monthly basis and report internally on the results
5.0	OPENNESS			
5.0-A	PUE Published	2. Available upon request	Acceptable	We monitor our PUE on a monthly basis and report externally and internally our findings.
5.0-B	Facility Design Drawings & Files	2. Available to view upon request	Acceptable	
	Site Assessment Version - v1.0 rev1.4			