

	OCP Ready v2 for Hyperscale Data Center Site Assessment	ORD02			
	Self Assessment Status:	COMPLETE-MEETS REQUIREMENTS			
	Data Center Location Name	ORD02			
	Data Center Location Address	501 Northwest Ave, Northlake, IL 60164			
	Site Development Category:	1. Core and Shell Ready - (ready for fit-out by XX/XX/XXXX)	09/23/2023		
	Site Description: IT Technical Space (White Space) Area	226768 sq ft			
	Site Description: Critical IT Power	36MW Expandable up to 52MW			
	Site Description: Network Provider Availability	AT&T, Cogent, Comcast, Crown Castle, PacketFabric, Zayo			
	Site Description: Facility Features	100% of load matched with renewable energy sources, Cooling technology leveraging up to 85% less water and 80% less power than traditional systems			
	Site Description: Other Services	24x7 Security and Acces, Remote Hands, Cabling, Telecom Service			
	Date Original Assessment is Completed	05/20/2024			
	Re-Assessment Date:	08/26/2026			
Ref:	REQUIREMENTS - Attribute (Must have an Optimum or Acceptable result)	Parameter	Result	Notes/ Actual Parameters	
1	CAMPUS SITE ACCESS & LOGISTICS				
1.0	SITE ACCESS				
1.0-A	Vehicular Access inc. truck circulation	1. Roadway access to loading dock to allow for an Interstate Semitrailer 65' Wheelbase (WB-65)	Optimum		
1.0-B	Building Access	1. Covered loading dock with leveler	Optimum		
1.0-C	Delivery pathway, Loading dock to storage room	1. ≥ 2.75m (108in) H x ≥ 1.6m (63in) W unobstructed access and threshold free	Optimum		
1.0-D	Delivery pathway, Goods in to IT Technical Space	1. ≥ 2.75m (108in) H x ≥ 1.6m (63in) W unobstructed access and threshold free	Optimum	Additional >96in rollup door accesses on 2nd floor for multiple entry points utilizing lifts.	
1.0-E	Corridor floor rolling load	1. ≥680 kg (1500 lb/ft2) (6.67 kN) slab on grade	Optimum		
1.0-F	Unboxing/pre-staging/storage area floor uniform load	1. ≥1221 kg/m2 (250 lb/ft2) (11.97 kN/m2) slab on grade	Optimum		
1.0-G	Unboxing/pre-staging/storage area floor concentrated load	1. ≥680 kg (1500 lb/ft2) (6.67 kN) slab on grade	Optimum		
1.1	ACCESS CONTROLS & MONITORING				
1.1-A	Site perimeter fence	1. ≥2.43m (96in) H with perimeter intrusion detection system (PIDS)	Optimum		
1.1-B	Site security lighting	1. Site lighting with backup power	Optimum		
1.1-C	Main Security Checkpoint (or check in location)	1. Staffed 24/7	Optimum		
1.1-D	Levels of security to gain access to IT Technical Space	1. >3 (site perimeter, building perimeter, secure corridor and IT Technical Space)	Optimum		
1.1-E	Video surveillance data record archive	1. >30 days	Optimum	90 day archive	
1.1-F	Visitor access requirements	1. Pre-approved with valid government issued ID and escorted	Optimum		
1.1-G	Entrance and exit door monitoring	1. All entrance and exit doors are electronically monitored and recorded	Optimum		
1.2	RAMPS				
1.2-A	Gradient	1. Not Applicable - No Ramps Required	Optimum		
1.2-B	Length	1. Not Applicable - No Ramps Required	Optimum		
1.2-C	Width	1. Not Applicable - No Ramps Required	Optimum		
1.2-D	Landing area	1. Not Applicable - No Ramps Required	Optimum		
1.2-E	Railings	1. Not Applicable - No Railings Required	Optimum		
1.3	FREIGHT LIFTS / ELEVATORS				
1.3-A	Weight loading	1. ≥3000kg (6600lbs)	Optimum		
1.3-B	Door height	1. ≥2.75m (108in) Lift /Elevator door opening height (internal cabin)	Optimum		
1.3-C	Width	1. ≥1.8m (71in) Unobstructed door opening width	Optimum		
1.3-D	Depth	2. ≥1.5m (60in) Unobstructed cabin depth	Acceptable		
2	IT TECHNICAL SPACE (WHITE SPACE)				
2.0	STRUCTURAL				
2.0-A	Floor rolling load	1. ≥680kg (1500lb) (6.67kN) slab on grade	Optimum		
2.0-B	Floor uniform load	1. ≥1221 kg/m2 (250 lb/ft2) (11.97 kN/m2) slab on grade	Optimum		
2.0-C	Floor concentrated load	1. ≥680kg (1500lb) (6.67kN) slab on grade	Optimum		
2.0-D	Finished floor to ceiling height	1. ≥4.5m (178in) clear space (no obstructions)	Optimum		
2.0-E	Access floor	1. Not Applicable - No Access floor	Optimum		
2.1	ELECTRICAL				
2.1-A	Class Rating	1. 3 (e.g. Bicsi F3 or UTI Tier 3 Notes Required)	Optimum	Block redundant 6+1 with standby generator and UPS system. Static transfer switch powering PDU;s (primary and redundant) to feed N + N within customer space	

2.1-B	Row level diverse power feeds	1. 2N (A+B)	Optimum	
2.1-C	Nominal circuit capacity	1. 1ϕ and 3ϕ circuits available based on customer requirements (e.g. 1ϕ 230-240V, 3ϕ 400V-415V Notes Required)	Optimum	Circuits are determined and designed based on customer requirements. We ensure upstream power supply meets requirements within area of customer zones.
2.1-D	Circuit frequency	1. 47-63 Hz	Optimum	
2.1-E	Power receptacle / WIP Type	1. All power receptacle types supported	Optimum	
2.1-F	Circuit receptacle location	1. Overhead busbar	Optimum	
2.1-G	Upstream UPS options	1. N+N UPS feed	Optimum	
2.1-H	Rack-based batteries permitted	1. Allowed	Optimum	
2.1-I	Generator load acceptance time	2. <35 seconds	Acceptable	
2.2	COOLING			
2.2-A	Class Rating	1. 3 (e.g. Bicsi F3 or UTI Tier 3 Notes Required)	Optimum	12+2 Chiller redundancy utilizing a cooling loop with TES and dual power supply Delta Cube Arrays.
2.2-B	Supplemental Advanced Cooling	1. Not Applicable	Optimum	
2.2-C	Rack airflow direction	1. Front to Back	Optimum	
2.2-D	Air containment methods	1. Hot aisle containment	Optimum	
2.2-E	Maximum rack density	1. ≥12kW	Optimum	
2.2-F	Minimum cold aisle width	1. ≥1400mm (56in)	Optimum	
2.2-G	Minimum free width cold aisle (Inside cage)	1.≥1400mm (56in)	Optimum	
2.2-H	Minimum hot aisle width	1. ≥1200mm (48in)	Optimum	
2.2-I	Inlet air conditions	1. ASHRAE Recommended	Optimum	
2.2-J	Air quality	1. MERV 8 filters on outside air	Optimum	
2.2-K	Temperature rise	1. ≥12 Deg C DeltaT	Optimum	
2.2-L	Cabinet blanking of open space	1. Mandatory	Optimum	
3	TELECOMMUNICATIONS			
3.1	ACCESS PROVIDERS AND OUTSIDE PLANT (OSP) Fiber			
3.1-A	OSP fiber to data center campus	1. 3 diverse OSP entrances to the data center campus	Optimum	
3.1-B	Carriers and backbone providers	1. Carrier neutral with expansion capability (Notes Required)	Optimum	Has designated future racks and slots and space for expanded services in existing MMRs
3.2	MEET-ME ROOMS (MMRS)			
3.2-A	Number and Location	1. N+N Isolated MMRs with dedicated OSP fiber entrance from service providers	Optimum	
3.3	MMR CABLING			
3.3-A	MMR to IT Technical Space Pathways	1. 2 dedicated diverse pathways from 2 MMRs	Optimum	
3.3-B	MMR to IT Technical Space Conduit Pathway sizing	1. ≥100mm (4in) conduit pathways	Optimum	
3.4	MMR ELECTRICAL			
3.4-A	Class Rating	1. 3 (e.g. Bicsi F3 or UTI Tier 3 Notes Required)	Optimum	Isolated house lineup, with generator back up, UPS, and utility connection. Redundant power supplies to critical equipment.
3.4-B	Row level diverse power feeds	1. 2N (A+B)	Optimum	
3.4-C	Nominal circuit capacity	1. 1ϕ and 3ϕ circuits available based on customer requirements (e.g. 1ϕ 230-240V, 3ϕ 400V-415V Notes Required)	Optimum	Circuits are determined and designed based on customer requirements. We ensure upstream power supply meets requirements within area of customer zones.
3.4-D	Circuit frequency	1. 47-63 Hz	Optimum	
3.4-E	Upstream UPS options	1. UPS systems derived from an isolated house lineup	Optimum	
3.4-F	UPS Redundancy	1. N+1	Optimum	
3.4-G	Generator load acceptance time	2. <35 seconds	Acceptable	
3.5	MMR COOLING			
3.5-A	MMR cooling redundancy per room	1. N+N	Optimum	
3.5-B	MMR cooling system type	1. DX	Optimum	
3.5-C	MMR cooling isolation	1. Isolated from IT technical space cooling system	Optimum	
3.6	MMR ACCESS CONTROLS			
3.6-A	Customer access to MMR(s)	1. Controlled by the colocation data center and escorted	Optimum	
3.6-B	Service Provider access to MMR(s)	1. Controlled by the colocation data center and escorted	Optimum	
3.6-C	Biometric readers, badge readers, and video surveillance installed for the MMR(s)?	1. Yes	Optimum	
4	SERVICE			
4.1	OPERATIONS AND SPARE PARTS			

4.1-A	Critical spares program	1. On hand spares available on campus		Optimum	
4.1-B	Critical Response SLA	1. Yes		Optimum	
4.1-C	Remote hands program	1. Yes		Optimum	
4.1-D	Office Space	1. Dedicated space available for fitout		Optimum	
5	EFFICIENCY				
5.0-A	Site Operations Standards	1. OCP Critical Facility Operations Guidelines		Optimum	Aligned Data Centers operations requirements and guidelines are in line with OCP guidelines
5.0-B	Operational Sourcing Standard	1. Hybrid		Optimum	
5.0-C	Work Note Communication and Coordination	1. Yes (e.g. Dedicated portal, Teams, Sharepoint)		Optimum	
5.0-D	Site PUE Monitoring	2. Other (notes required)		Acceptable	Performed on billing cycles with the ability to perform on request.
5.0-E	Site Design PUE at Full Load	1. <1.3 @ 80% Max Utilization		Optimum	
5.0-F	Site Annualized PUE Current Achievement	1. <1.3 @ 80% Max Utilization		Optimum	
5.0-G	Site WUE Monitoring	1. Not applicable (e.g. zero water requirement)		Optimum	
5.0-H	Site CUE Monitoring	2. Other (notes required)		Acceptable	Performed on billing cycles with the ability to perform on request.
6	OPENNESS				
6.0-A	PUE Published	2. Other (Notes Required)		Acceptable	Performed on billing cycles with the ability to perform on request.
6.0-B	Facility Design Drawings & Files	1. Available to view upon request		Optimum	
6.0-C	BMS / PMS Customer Access	1. External access provided through a MQTT Broker or other air gapped connection for telemetry purposes. (e.g. power monitoring)		Optimum	
7	CERTIFICATIONS				
7.0-A	ISO/IEC 27001	1. Certification achieved		Optimum	
7.0-B	SOC 1 Type II	1. Certification achieved		Optimum	
7.0-C	SOC 2 Type II	1. Certification achieved		Optimum	
7.0-D	PCI-DSS	1. Certification achieved		Optimum	
7.0-E	Sustainability Assessment	1. Green Globes Certification achieved		Optimum	3 Green Globes
7.0-F	Data Center Certification	2. Other (Notes Required)		Acceptable	Documentation on specific certification unavailable, however the design and coordination with customer requirements meet the performance metrics of TIA and UTI certifications.
	Site Assessment Version - v1.0 rev1.15				