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OCP Ready Guidelines for Deploying Modular Data Centers



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NOVEMBER 9-10, 2021

OCP Ready Guidelines for Deploying Modular Data Centers

Karl Rabe, Colocation.Green
Rob Coyle, OCP Ready Project Co-Lead

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Panel Introduction

Karl Rabe

- Mechatronic Engineer
- Sustainable DC Pioneer (Windcloud Br. / Windcloud 4.0)
- SDN Cloud & HPC Architect



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Rob Coyle

- Construction Heritage
- Technology Addict
- Infrastructure Problem Seeker



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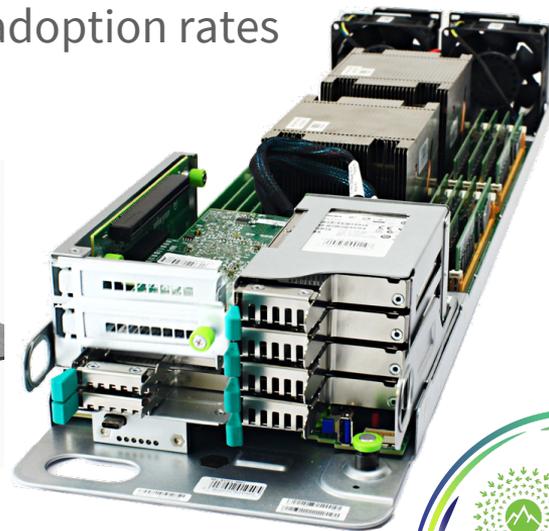


Problem Statement



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- There is a lack of consistency around modular data center site requirements.
- Specific requirements for deploying OCP hardware in a modular environment needs to be considered to improve adoption rates and leverage advantages of OCP Hardware.



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Potential Resource



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Step 1 · Confirm your facility meets the OCP [Colo Facility Guidelines for OCP Racks](#).

Step 2 · Must complete the OCP Ready™ Colo Site Assessment ([Excel Version](#)), ([Google Sheet Version](#)) (please reach out to Foundation Staff or OCP Project Leads for assistance with the Assessment)

If approved, your facility will receive OCP Ready recognition and logos, and will be listed on the OCP Marketplace (if contributor is an OCP Colo Solution Provider).

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Proposed Solution

- DCF-MDC Workstream - OCP Ready MDC
- Guidelines to level set site requirements for modular data centers
- Model after existing OCP Ready requirements



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OCP Ready Guidelines

- Guideline document status
- Example challenge adopting existing OCP Ready Guidelines
- Checklist status
- What criteria are most critical in a modular data center compared to a colocation facility

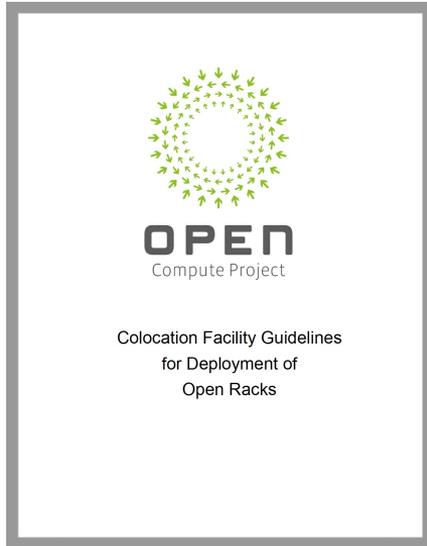


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Product/Facility Info



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Product/Facility Info



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OCReady COLD Facility Assessment	[Site #1 specific name]	[Site #2 specific name]	[Site #3 specific name]
	NOT COMPLETED	NOT COMPLETED	NOT COMPLETED
Self Assessment Status			
Site Center Location Name			
Site Center Location Address			
Site Description: White Space Area			
Site Description: Critical IT Floor			
Site Description: Network Provider Availability			
Site Description: Facility Features			
Site Description: Other Services			
Date Original Assessment is Completed			
Date Assessment Date			
REQUIREMENTS - AirBuds (Result must be Optimum or Acceptable result)			
	Parameter	Result	Notes
ACCESS			
Building Access	0 - Selection Required		
Delivery pathway, Loading dock to Goods In	0 - Selection Required		
Delivery pathway, Goods in to White space	0 - Selection Required		
Control floor ceiling load	0 - Selection Required		
Unloading/staging/storage area floor uniform load	0 - Selection Required		
Unloading/staging/storage area floor concentrated load	0 - Selection Required		
BASES			
Gradient	0 - Selection Required		
Width	0 - Selection Required		
Landing area	0 - Selection Required		
Railings	0 - Selection Required		
LIFTS / ELEVATORS			
Weight loading	0 - Selection Required		
Door height	0 - Selection Required		
Stairs	0 - Selection Required		
Doors	0 - Selection Required		
WHITE SPACE			
Floor ceiling load	0 - Selection Required		
Floor uniform load	0 - Selection Required		
Floor concentrated load	0 - Selection Required		
Finished floor to ceiling height	0 - Selection Required		
Above floor clearance	0 - Selection Required		
ELECTRICAL			
Number of independent circuits to the rack	0 - Selection Required		
Maximum circuit capacity	0 - Selection Required		
Circuit voltage	0 - Selection Required		
Circuit frequency	0 - Selection Required		
Power capacity: 480V/3Ø	0 - Selection Required		
Circuit receptacle location	0 - Selection Required		
Upstream UPS location	0 - Selection Required		
Rack based battery placement	0 - Selection Required		
Generator load acceptance time	0 - Selection Required		
COOLING			
Rack airflow direction	0 - Selection Required		

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Call to Action

- How to get involved in the Project/Sub-Project Community
- Timeline for Contribution Availability
 - OCP MDC Checklist – 1st Draft November 2021
 - OCP MDC Guidelines – 1st Draft January 2022

Project Wiki with latest specification : https://www.opencompute.org/wiki/Data_Center_Facility/OCP_Ready

Mailing list: <https://ocp-all.groups.io/g/OCP-MDC>

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Open Discussion



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