Panel Discussion

4 PRINCIPLES TO REALIZE THE BENEFITS OF OCP

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Introducing the Panelists

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Data center revolution continues…
Get rid of the 50%

50% of the data centre facility costs are for < 1% of the operation
Opportunities?

What part of your data centre IT environment is really critical?

Uncontrolled shutdown of IT equipment causes 20% to fail automatic restarting.

The maximum power of a rack and a row a racks can be controlled already in OCP. Why not use this possibility?

If you ramp down the your data storage access. Your data is not lost!

Geo-redundancy can take care of local capacity limitations.
Questions & Audience Polling

4 Principles Panel Discussion - Panel questions
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Q4.1 If the hardware can handle it, would a max. server inlet temperature condition 35 degrees Celsius / 95 degrees Fahrenheit acceptable for you?

Yes, why not
No, don’t go there

Q4.2. Can you imagine operating in 5 years, a data center facility without emergency generator backup?

Yes, we can something workable without
No, don’t go there

Q4.3. Would there be a market in 5 years for OCP colocation facilities with in-rack UPS only?

Yes, let’s do it
No, no market for this

Q4.4. Are the power distribution paths to a row of racks of N acceptable in large scale deployments?

Yes, no problem
No, don’t go there

Q4.5. Is there a need for a blank sheet guidelines for OCP?

Yes, blank sheet OCP guidelines is required
No, we can work with the current guidelines Uptime Institute, TIA-942, BICS

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1: OCP Environmental Conditions

Would it be acceptable for the design of your data center to have a maximum server inlet temperature condition of 35 degC (95 degF)?

YES, NO PROBLEM  NO, DON’T GO THERE
2: Emergency Generator Capacity

Can you imagine operating a future data center with an emergency power generator capacity < 80% of the normal operating load capacity?

[Buttons]
- YES, NO PROBLEM
- NO, DON’T GO THERE
3: OCP Data Center Facility

Would there be a market in the near future for OCP colocation facilities with in-rack UPS?

- YES, LET’S DO IT
- NO, THERE IS NO MARKET FOR THIS
Is the power distribution to a row of racks of N acceptable in large scale deployments?

YES, NO PROBLEM  NO, DON’T GO THERE
5: OCP and Industry Guidelines Gap

Do you reference industry standards or guidelines (S&G) in your design such as Uptime Institute, TIA-942, BICSI, etc?

YES, REFERENCE EXISTING S&G IN DESIGNS

NO, EXISTING S&G DO NOT MATCH NEEDS
6: Divide Between IT and Facility

Is communication allowed between facility and IT to improve overall energy performance of facility and IT?

**YES, FACILITY IS INTEGRATED PART**

**NO, FACILITY SHOULD BE SEPARATE**
OCP integrated data center?
Question and Answer

- Raise your hand if you have a question or comment
- Microphone will be brought to you
- Speak clearly into microphone to ensure your input is captured in the recording of the session
Interested to contribute OCP Data Center Facility Project?

Please join

Data Centre Project Mailing List
- https://ocp-all.groups.io/g/OCP-DCF

Data Centre Facility Project Wiki
- https://www.opencompute.org/wiki/Data_Centre_Facility

Colo Facility Guidelines for OCP Racks
- https://www.opencompute.org/wiki/Open_Rack/SpecsAndDesigns

Colo Facility Guidelines Checklist
- https://www.opencompute.org/wiki/Data_Centre_Facility/colosp
4 principles open for new ideas

1. Get rid of the 50%

2. Blank sheet guidelines

3. Event response

4. Integrated DC Communication