Questionnaire for focus group participants at DCD Converged conference on March 17th and 18th
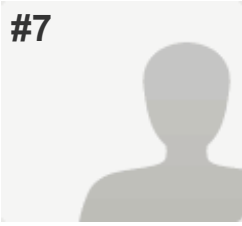
#7

COMPLETE

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PAGE 1: Welcome

Q1: Name

First name, last name initial   Janice M

PAGE 2: Which of the following do you do in your position?

Q2: Do you participate in decisions about purchasing equipment for your data center (e.g., servers, software, racks, lighting, cooling equipment)?

Yes

Q3: Do you participate in decisions about servicing or maintaining equipment for your data center?

Yes

Q4: How many data centers, server rooms, and server closets does your company own or operate?

300

Q5: [If more than one data center] For how many data centers are you involved in major equipment purchase and maintenance decisions?

4

PAGE 3

Q6: The majority of the data centers you help manage are:

Localized data centers (500 – 5,000 square feet)

Q7: What is the average number of racks in your typical data center?

<2,000 (please enter the value below) 30

Q8: How many servers are there in your organization as a whole?

> 50,000

PAGE 4

Q9: What type of data centers does your company operate?	Server rooms or closets,
	Enterprise/corporate data centers,
	Cloud/hyperscale computing,
	Multi-tenant/colocation data centers
Q10: Which sectors does your data center support? (Name no more than three)	Health care
Q11: What state(s) are your data centers located in?	NJ PA NY CA

PAGE 5

Q12: When did you last pursue a major equipment purchase/upgrade for your data center?	Within the last 3 years
Q13: How often do you replace servers in your data centers?	daily
Q14: How often do you make major infrastructure upgrades to your data centers?	regular life cycle replacements in EDCs
Q15: Do you actively participate in the EnergySTAR Buildings, Green Grid, or another third-party energy-efficiency program?	No
Q16: Have you had an energy audit performed by a third party within the last three years?	No

PAGE 6

Q17: Do you track energy use on a regular basis?	Yes
Q18: If YES, what is the typical electricity consumption (kwh) of one of your data centers?	NA
Q19: Do you track power usage effectiveness (PUE) or any other efficiency measures?	No
Q20: If YES, what is the average PUE of your data centers?	*Respondent skipped this question*
Q21: Do you track server utilization?	Yes

Q22: **If YES, what is the average server utilization rate of your data centers?**

depending on the dc it varies greatly

PAGE 7

Q23: **Do you rent data center space from another company?**

Yes

Q24: **If YES, what percentage of your data center needs are met by renting space from others?**

10

Q25: **Do you lease or outsource from another company any of the following elements of your data centers?**

Servers	No
Facility management	No
Maintenance & repairs	No

PAGE 8

Q26: **Do you lease space in your data center(s) to other companies?**

No

Q27: If YES, what percentage of your racks are leased to other companies?

Respondent skipped this question

Q28: If you lease data center space to or from another company, does the tenant or facility owner typically pay for electricity costs?

Respondent skipped this question

PAGE 9: Facility Management

Q29: **Regarding Facility Management; has your company considered or used any of the following technologies and energy saving strategies: (check all that apply)**

Isolating hot/cold aisles	HAS USED; Would use again
Blanking panels	HAS USED; Would use again
Enclose server racks (e.g., strip curtains)	HAS USED; Would use again
Data center infrastructure management (DCIM) software	HAS USED; Would use again
Raising temperature set points	HAS USED; Would use again
Variable speed fan drives	HAS USED; Would use again
Energy-efficient air handling units	HAS USED; Would use again
Modular facility design for data center expansion	HAS USED; Would use again
Air-side economizer	NEVER USED; Would consider using in the future
Water-side economizer	NEVER USED; Would consider using in the future
Energy-efficiency lighting	NEVER USED; Would consider using in the future
Predictive modeling of future IT deployments	HAS USED; Would use again

Q30: **What is the typical facility temperature?**   20

PAGE 10: Servers

Q31: **Regarding Servers; Has your company considered or used any of the following technologies and energy saving strategies: (check all that apply)**

Energy efficient server hardware (e.g., power supply, fans, etc.)	HAS USED;Would use again
Underclocking	DON'T KNOW
Virtualization	HAS USED;Would use again
Decomission idle servers	HAS USED;Would use again
Consolidate lightly used servers	HAS USED;Would use again
Improve data storage efficiently	HAS USED;Would use again
IT power management software	HAS USED;Would use again

PAGE 11: [Multi-tenant DCs] Adjust pricing models to incentivize energy efficiency

Q32: **Regarding [Multi-tenant data centers] Adjust pricing models to incentivize energy efficiency; Has your company considered or used any of the following technologies and energy saving strategies: (check all that apply)**

Space-based pricing	HAS USED; Would use again
Space and power block pricing (differentiate power and energy)	NEVER USED;Would consider using in the future
Space and actual power pricing (differentiate power and energy)	NEVER USED;Would consider using in the future