



## Data Center Checklist

Evaluate data center providers on a range of important aspects to assist in making an informed decision.

Data center - A \_\_\_\_\_

Data center - B \_\_\_\_\_

Data center - C \_\_\_\_\_

### COMPANY PROFILE

Company is wholly owned and operated \_\_\_\_\_

Company owns building \_\_\_\_\_

Company can provide reference accounts \_\_\_\_\_

Company offers enterprise-grade on-demand computing ("cloud") infrastructure for flex capacity \_\_\_\_\_

Company competency-designs engineers, operates data centers \_\_\_\_\_

Company provides 100% uptime SLA \_\_\_\_\_

Phoenix NAP	Data center A	Data center B	Data center C
Yes			
Yes			
Yes			
Yes			
Yes			
Yes			

### DATA CENTER STRUCTURE

Steel reinforced concrete \_\_\_\_\_

Square footage \_\_\_\_\_

Number of stories \_\_\_\_\_

Separate service galleys \_\_\_\_\_

Distance from street (feet) \_\_\_\_\_

Onsite office space \_\_\_\_\_

Number of freight elevators \_\_\_\_\_

Number of truck/shipping bays \_\_\_\_\_

Burn-in / staging center available \_\_\_\_\_

Major delivery services available \_\_\_\_\_

Easily accessible from airport/highway \_\_\_\_\_

Building marked \_\_\_\_\_

Phoenix NAP	Data center A	Data center B	Data center C
Yes			
160K			
2			
Yes			
160			
Yes			
1			
1			
Yes			
Yes			
Yes			
No			

### UTILITY POWER

Total capacity available at data center (MW) \_\_\_\_\_

Diverse high voltage feeds from utility \_\_\_\_\_

If yes, what is capacity (in kV)? \_\_\_\_\_

Medium voltage distribution \_\_\_\_\_

Phoenix NAP	Data center A	Data center B	Data center C
40 MW			
Yes			
12+			
Yes			

## BACKUP POWER

Number of backup generators onsite
Total backup capacity currently available (MW)
Number of gallons diesel fuel stored onsite
Out-of-state fuel contracts
How long at full load? (hours)
Multiple contracts for fuel
Battery backup capacity at load (minutes)
Battery backup capacity (MW)
Roll-up generator available onsite
Redundant generators

Phoenix NAP	Data center A	Data center B	Data center C
6			
12			
16,200			
Yes			
24 hours			
Yes			
1			
Up to 20 MW			
Yes			
Yes			

## CONDITIONED POWER

UPS currently available (MW)
Utility grade UPS
Power density across entire data center (Watts UPS / SF)
Maximum certified power density (by CFD)
“Green” UPS efficiency
Color-coded power cabling
Hand-sewn, wax string used
Overhead cabling
Truly diverse 2N power distribution within data center
Does it have an Emergency Power-Off Switch (EPO)

Phoenix NAP	Data center A	Data center B	Data center C
8 MW			
Yes			
200+			
581			
Yes			
Yes			
Yes			
Yes			
Yes			
No			

## COOLING

Number of compressors chillers
Number of evaporation towers
Capacity of chilled water plant (tons)
Number of CRAH units
Capacity of CRAH units (tons per unit)
Bi-directional, welded, valved chilled water loop
Diverse supply and return lines?
A and B power feed to each cooling system

Phoenix NAP	Data center A	Data center B	Data center C
2			
4			
720			
19			
80			
Yes			
Yes			
Yes			

## COOLING CONTINUED

Thermal Energy Storage (TES)

If yes, capacity of Thermal Energy Source (number of ton-hours)

High-efficiency raised floor

If yes, height of raised floor (inches)

High-efficiency chilled water system

Variable speed plug fans

Redundant pumps

Redundant chillers

Phoenix NAP	Data center A	Data center B	Data center C
Yes			
103			
Yes			
36"			
Yes			
Yes			
Yes			
Yes			

## COMPLIANCE

SAS 70 Type II

PCI DSS

Phoenix NAP	Data center A	Data center B	Data center C
Yes			
Yes			

## ENERGY EFFICIENCY

Motion activated lighting

Ultrasonic humidification

Variable frequency drive chillers

Variable frequency drive pumps

Variable frequency drive cooling towers

Variable frequency drive air handlers

Insulated roof

Clean plenum

High-efficiency / "green" UPS

Phoenix NAP	Data center A	Data center B	Data center C
Yes			
Yes			
Yes			
Yes			
Yes			
Yes			
Yes			
Yes			
Yes			

## ACCESS CONTROL

Traffic bollards

24x7 onsite company employed trained and armed guard staff

Closed circuit TV surveillance with DVR recording

Slab-to-slab cage construction available

Visitor tracking

Biometric screening

Unidirectional Mantraps

Phoenix NAP	Data center A	Data center B	Data center C
Yes			
Yes			
Yes			
Yes			
Yes			
Yes			
Yes			
Yes			

## ACCESS CONTROL CONTINUED

Locking cabinets, cages and suites
Private access control systems allowed
24x7 customer access without delay
Bullet-resistant glass
Secure shipping/receiving

## ENVIRONMENTAL CONTROLS

VESDA smoke detection
Interlocked, multi-zone pre-action dry pipe fire suppression
Leak detection
PANI grounding system
UL approved perimeter lightning protection system

## SURROUNDING AREA

Located in flood plain
Located in flight path
Adjacent to railroad tracks
Earthquakes
Tornadoes
Hurricanes
Tidal flooding
River flooding
Tsunami
Blizzards/Hail storms

## WATER

Number of gallons of water stored onsite
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## ONSITE NETWORK CARRIERS

AboveNet
Bluewire
Century Link
Cogent

Phoenix NAP	Data center A	Data center B	Data center C
Yes			
Yes			
Yes			
Yes			
Yes			

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Yes			
Yes			
Yes			
Yes			

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No			
No			
No			
No			
No			
No			
No			
No			
No			
No			

Phoenix NAP	Data center A	Data center B	Data center C
75K			

Phoenix NAP	Data center A	Data center B	Data center C
Yes			
Yes			
Yes			
Yes			

## ONSITE NETWORK CARRIERS CONTINUED

Colo@
Cox
Global Crossing
Highwinds
Hurricane Electric
Integra
Internap
Level 3
SRP Telecom
Tinet
Trucom
Tw Telecom
XO
Zayo Fiber Solutions

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Yes			
Yes			
Yes			
Yes			
Yes			
Yes			
Yes			
Yes			
Yes			
Yes			
Yes			
Yes			
Yes			
Yes			
Yes			

## NETWORK CONNECTIVITY

No monthly charge for cross connects
Carrier-neutral
Onsite Meet-Me-Room
Number of diverse fiber entry vaults
Number of network providers onsite with gateway access
Enterprise-grade blended Internet bandwidth w / Minimum 10GB connections to each provider
Minimum distance between fiber
Dark fiber available
Wireless service available
Number of carriers with diverse entry
Dedicated cross-connect room

Phoenix NAP	Data center A	Data center B	Data center C
Yes			
Yes			
Yes			
2			
19			
Yes			
22 ft			
Yes			
Yes			
8			
Yes			

## SUPPORT SERVICES

Complimentary remote hands

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Rack and stack

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Cabling

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24x7 on-site NOC Staff

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## AMENITIES

Class A office space

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Break rooms

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Showers

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Convenient laptop workstations

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Free coffee and soft drinks

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Hotel partnership

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Phoenix NAP	Data center A	Data center B	Data center C
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Yes			
Yes			
Yes			

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Yes			
Yes			
Yes			
Yes			
Yes			