

Introduction: How to Use This Tool

Use this checklist to aid in the process of selecting a new site for the data center. When visiting potential building sites, print the checklist off and take it along to record impressions and comments on the building and/or its location.

Fill in Table 1 with the sites details on location, ownership, and size.

To use Table 2, check off the appropriate columns for each item as they are assessed. Columns are recorded using the following:

- Yes the site fully conforms.
- PAR Partial conformity. <u>NOTE:</u> If a partial conformity exists, an explanation describing the partial conformity along with planned actions to remediate should be entered in the comments field.
- **No** Does not conform. <u>NOTE:</u> If a non-conformity exists describe the non-conformity and if any action to remediate is planned. Also note where no remediation is possible.
- N/A Not applicable

#### **Table 1: Site Details**

Site Address:	
Location Type: (i.e. Urban, Suburban, Industrial complex)	
Is it in an existing building or a new building?	
Floor Number	
Leased or owned?	
Floor space (square feet):	

#### **Table 2: Data Center Cabling Assessment Checklist**

Item #	Item	Yes	PAR	NO	N/A	Comments
1	What kind of <b>LAN Cables</b> is					
	used for Rack to Rack LAN					
	cabling?					
1.1	What is the data Speed of the					
	Backbone?					
1.2	What is the Brand of Cables					
	used?					
1.3	What is maximum length used					
	for LAN cables?					
1.4	Are the connections in same					
	room or data Center is divided					



	in multiple rooms/floors?			
1.5	Provide example of patch panel			
	nomenclature (how ports are			
	named)?			
2	What kind of <b>Fiber Cable</b> are			
_	used for Rack to Rack cabling?			
	used for fluck to fluck enothing:			
2.1	What is the data Speed of the			
	Backbone?			
2.2	What is the Brand of Cables			
	used?			
2.3	What is maximum length used			
	for Fiber cables?			
2.4	Are the connections in same			
	room or data Center is divided			
	in multiple rooms/floors?			
2.5	Provide example of patch panel			
	nomenclature (how ports are			
	named)?			
2.6	Is the fiber cables used are			
	Single mode?			
3	Data Center is connected to			
	how many remote			
	locations/branch offices?			
3.1	What kind of WAN connection			
	solution is being used?			
3.2	Who are all service provider?			
3.3	Is the remote location has			
	redundant connection(s)?			
3.3.1	What is solution used for			
	redundant/backup connection?			
3.3.2	What is the minimum time			
	required to switch over to			
	backup connection?			
3.3.3	Is the failover automatic?			
3.3.4	If the failover is manual, who is			
	responsible and what is			
	availability of the			
	team/resource?			
4	Is the Core redundant?			
4.1	What is solution implemented			
	for redundancy?			
4.2	When was last time to test	 		 
	redundancy of core failure?			
5	How many router/switches are			
	serving as WAN routers?			
5.1	How many links are aggregated			
	on all routers?			



5.2	Does links provide device level redundancy?			
5.3	How the access to these devices			
0.5	is secured?			
5.4	Who all has access to routers?			
5.5	How the accounting for access			
	is done?			
5.6	Does router(s) has access-list to			
	prevent access?			
5.7	What is way of taking backup			
	of Router(s)?			
5.8	What is the frequency of taking			
	backup of config?			
5.9	For how long backup config is kept?			
5.10	Does changes to devices are			
	controlled by change control			
	process?			
6	Type of Core switches?			
6.1	How many and which are			
6.1	How many and which are copper modules used?			
6.2	What is the role of copper			
0.2	module connected?			
6.3	How many and which are Fiber			
0.5	modules used?			
6.4	What is the role of Fiber			
0	module connected?			
6.5	How many and which are Other			
	modules used?			
6.6	What is the role of Other			
	module connected?			
6.7	Redundant Power Supplies?			
6.8	Does Switches have routing			
	Engine?			
6.8.1	Are Routing engines redundant:			
	physically?			
6.8.2	Are Routing Engines			
6.0.2	configured as redundant?			
6.8.3	When was the last redundancy checked for failover?			
6.9	What is Code/iOS/Software on			
0.5	switches?			
6.10	What is the up-time of the			
	switch?			
6.10.1	Was the last reboot planned or			
	unplanned and what was the			
	reason?			
6.11	How the access to these devices			
	is secured?			



6.12	Who all has access to routers?			
6.13	How the accounting for access			
	is done?			
6.14	Does router(s) has access-list to prevent access?			
6 15				
6.15	What is way of taking backup of Router(s)?			
6.16	What is the frequency of taking backup of config?			
6.17	For how long backup config is kept?			
6.18	Does changes to devices are			
	controlled by change control			
	process?			
7	T. CD: 4 71 4: 14 1 0			
7	Type of <b>Distribution switches</b> ?			
7.1	How many and which are copper modules used?			
7.2	What is the role of copper			
	module connected?			
7.3	How many and which are Fiber modules used?			
7.4	What is the role of Fiber			
	module connected?			
7.5	How many and which are Other modules used?			
7.6	What is the role of Other module connected?			
7.7	Redundant Power Supplies?			
7.8	Is the redundant powers are			
	connected to different sources?			
7.8.1	Are the switches having			
	redundant connections to core			
7.8.2	and/or access switches?  Is the redundancy tested?			
1.0.2	is the redundancy tested?			
7.8.3	When was the last redundancy			
	checked for failover?			
7.9	What is Code/iOS/Software on switches?			
7.10	What is the up-time of the switch?			
7.10.1	Was the last reboot planned or			
	unplanned and what was the reason?			
7.11	How the access to these devices			
	is secured? Who all has access to routers?			
7.12				



7.13	How the accounting for access is done?				
7.14	Does router(s) has access-list to prevent access?				
7.15	What is way of taking backup of Router(s)?				
7.16	What is the frequency of taking backup of config?				
7.17	For how long backup config is kept?				
7.18	Does changes to devices are controlled by change control process?				
8	Type of Access switches?				
8.1	How many and which are copper modules used?				
8.2	What is the role of copper module connected?				
8.3	How many and which are Fiber modules used?				
8.4	What is the role of Fiber module connected?				
8.5	How many and which are Other modules used?				
8.6	What is the role of Other module connected?				
8.7	Redundant Power Supplies?				
8.8	Is the redundant powers are connected to different sources?				
8.8.1	Are the switches having redundant connections to distribution switches?				
8.8.2	Is the redundancy tested?				
8.8.3	When was the last redundancy checked for failover?				
8.9	What is Code/iOS/Software on switches?				
8.10	What is the up-time of the switch?				
8.10.1	Was the last reboot planned or unplanned and what was the reason?				
8.11	How the access to these devices is secured?				
8.12	Who all has access to routers?				
8.13	How the accounting for access is done?				



8.14	Does router(s) has access-list to				
8.15	prevent access?  What is way of taking backup				
	of Router(s)?				
8.16	What is the frequency of taking backup of config?				
8.17	For how long backup config is kept?				
8.18	Does changes to devices are controlled by change control process?				
9	How many <b>internet firewalls</b> being used?				
9.1	How many and which are modules used?				
9.2	What is the role of module connected?				
9.3	Redundant Power Supplies?				
9.4	Is the redundant powers are connected to different sources?				
9.5	Is the firewall having redundant connections to distribution switches?				
9.6	Is the redundancy tested?				
9.7	When was the last redundancy checked for failover?				
9.8	What is Code/iOS/Software on Firewalls?				
9.9	What is the up-time of the Firewall?				
9.10	Was the last reboot planned or unplanned and what was the reason?				
9.11	How the access to these devices is secured?				
9.12	Who all has access to Firewalls?				
9.13	How many DMZ Zones?				
9.14	How do you manage Anti-virus on DMZ servers?				
9.15	Are there customer/Vendor Managed servers in DMZs?				
9.16	What is the frequency of taking backup of config?				
9.17	For how long backup config is kept?				
9.18	Does changes to devices are			-	 -



_	controlled by change control process?				
10	How many <b>Internal firewalls</b> being used?				
10.1	How many and which are modules used?				
10.2	What is the role of module connected?				
10.3	Redundant Power Supplies?				
10.4	Is the redundant powers are connected to different sources?				
10.5	Is the firewall having redundant connections to distribution switches?				
10.6	Is the redundancy tested?				
10.7	When was the last redundancy checked for failover?				
10.8	What is Code/iOS/Software on Firewalls?				
10.9	What is the up-time of the Firewall?				
10.10	Was the last reboot planned or unplanned and what was the reason?				
10.11	How the access to these devices is secured?				
10.12	Who all has access to Firewalls?				
10.13	How many DMZ Zones?				
10.14	How do you manage Anti-virus on DMZ servers?				
10.15	Are there customer/Vendor Managed servers in DMZs?				
10.16	What is the frequency of taking backup of config?				
10.17	For how long backup config is kept?				
10.18	Does changes to devices are controlled by change control process?				
1.1	XXIII				
11	Which network monitoring tool is being used?				
11.1	Which Team/ Person is responsible for managing the monitoring tool?				



11.2	Are Monitoring Alerts Configured?			
11.3	Who receives the Monitoring Alerts?			
11.4	Are alert defined for severity, holidays, on-call, VIP users, Critical devices/Services etc?			
11.5	How Monitoring tool is being monitored?			
11.6	Are alert also defined for degraded service (not loss-of-service but degrade)?			
12	What is the Capacity of UPSs used?			
12.1	How UPSs are connected and configured?			
12.2	Are UPSs SNMP capable?			
12.3	Are UPSs Managed?			
13	Cooling/Temperature/Humidity monitoring is being done?			
13.1	What is the defined temperature of Data Center?			
13.2	What is the Humidity level defined for Data Center?			
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