CareMount Medical Data Center Design

Rev. Jan 2021

Notes...

Firewall – Cisco ASA are EOL at YE of 2021. They are actively being replaced.

Presentation – enough capacity to carry full load of users at each datacenter

Compute – enough capacity to carry 90% of all server requirements at Fishkill; 100% capacity to carry all server requirements at Chappaqua

Communications – Dark Fiber redundancy between Chappaqua and Fishkill enable mirror imaging and shared load between datacenters.

Storage – Pure Flash and Isilon fully redundant and a mirror copy of each other.

Backup – Avamar/Data Domain – with a monthly copy stored via Elastic Cloud storage solution.

	Chappaqua Crossing	Fishkill Westage	Mount Kisco B110
Firewall	**CMM Proper Cisco ASA** (R)	**CMM Proper Cisco ASA**	
	CMM Guest/Cloud		
Presentation CMM APPS Compute provided by Cisco UCS blades 46 in Chappaqua; 49 in Fishkill	**VMWare – Virtual Desktop Integration** (R)	**VMWare – Virtual Desktop Integration**	
Compute Servers – HP Proliants used as ESXi host, 6 in each location HP Superdome servers used for Nextgen database servers	**VMWare – Virtual Server** (R)	**VMWare – Virtual Server**	
	NextGen Redundant Database – housed in Chappaqua		
Communications Network Traffic Fiber Channel traffic Brocade: 2 Switches in Fishkill; 6 in Chappaqua	**Optical Network Switch** (R)	**Optical Network Switch**	
	Optical Network Switch (R)	**Optical Network Switch**	
Storage	**Pure Flash – 193TB** (R)	**Pure Flash – 193TB**	
	EMC File - Isilon1 – 608TB (R)	**EMC File - Isilon2 - 120TB**	
Back-up Nightly Copies		**Avamar / Data Domain**	**Data Domain** Monthly Copy