

City of Memphis –MPD Storage Area Network RFP
RFP # SAIC CoM 2016 MC R200817 RFQ Questions

	<u>RFP Section</u>	QUESTION	Response
1.	Exhibit 5	Regarding the overall requirement of the purpose of the new storage array - what is the intended purpose of the capacity required? Is its intent to replace the existing Data Domain as a backup target for Commvault only or is it intended to add additional storage capacity to applications and end users?	The purpose is to replace the Data Domain and the Current SAN. CommVault will have to connect to a portion of it for Data Domain Backups. After everything is setup and if there is room, then both the 'P' & 'N' will be moved to the new storage device. This is an afterthought due to other projected projects to replace the HIE Servers ('P' & 'N' Drives) have been delayed or proved to be non-viable.
2.	Exhibit 5	What is the overall in use capacity of the existing Data Domain?	The existing Data Domain has a "post-comp" (post compression) of 18017 GB, but we have 2. One is at the DR Site. Once the new storage is up and running, both old Data Domains can be repurposed for DR.
3.	Exhibit 5	Regarding the "P" drive – where is the storage supporting this drive physically located?	Currently at the RTCC (600 Jefferson).
4.	Exhibit 5	Regarding the "P" drive – is the intent to relocate this drive functionality to the new array or just back up this drive to the array with Commvault?	Referring to the previous question "Regarding the overall requirement of the purpose of the new storage array - what is the intended purpose of the capacity required? Is it intended to replace the existing Data Domain as a backup target for Commvault only or is it intended to add additional storage capacity to applications and end users?" If possible, move the new array and backup to the DR site. This depends on final setup functionality and if the projected projects to replace the HIE ('P' & 'N' Drives) servers continue to be non-viable.
5.	Exhibit 5	Regarding the network and the services the new array will replace – what are the protocols and speeds of the existing storage network (ie. 2GB FC, 10GigE etc.)?	(4) 1 GB linked via linked aggregation, FC, 10GigE.
6.	Exhibit 5	Regarding Commvault – Please provide the licenses and licensing levels currently in place with this product. Are there any purchases currently in consideration?	Maintenance Advantage, Premier Level
7.	Exhibit 5	Regarding the existing SAN network infrastructure – Please provide the type, protocol and speed of existing switches	FC & 10GigE
8.	Exhibit 5	MPD SAN refers to backup device (Data Domain). The statement of purpose refers exclusively to a storage array. Are we to understand that the backup device (Data Domain) will be replaced with a storage array?	Yes, the proposed Storage Array should replace the SAN and Data Domain.

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9.	Exhibit 5	Array should be at least 168TB of raw storage. What is the targeted amount of usable storage?	At least 120TB
10.	Exhibit 5	What is the current size of the data specified within, the backup rotation, and the change rate?	Data Domain backups are 18tb after compression, Backup is incrementally daily and weekly full.
11.	Exhibit 5	Will Commvault Media Agent be leveraging FC, ISCI, or NFS connectivity to the SAN? What switch models will be used for the connectivity?	10GigE Cisco N5K-C5548UP
12.	Exhibit 5	Is it correct that "Application Granular Encryption" refers to volume level encryption?	Yes
13.	Exhibit 5	Is it correct that "Secure Data Shredding" may be accomplished via deleting the encryption key for a volume, thereby, leaving the data unrecoverable?	No, per CJIS, Data and Encryption need to delete.
14.	Exhibit 5	Please identify the Connectivity Required for the Solution (i.e. Fiber Channel, iSCSI, CIFS, NFS, etc)	10GigE from Cisco to SAN
15.	Exhibit 5	Please identify any existing Connectivity (i.e. 1GbE or 10GbE Ethernet -- Fiber Channel (4,8 or 16 GbS)	10 GbE from current SAN to Cisco
16.	Exhibit 5	Regarding Professional Services - Is MPD looking for a turn-key installation and Migration	Yes
17.	Exhibit 5	What type of Migration will be required for the CommVault Data (i.e. Point in Time cut over vs Migration of backup sets and re catalogue)	Point in time cut over until Backups are re-catalogue
18.	Exhibit 5	How much data is involved in the effort	Approximately 120 TB before compression.
19.	Exhibit 5	Is there any requirement to Hydrate or Roll off to Tape	No
20.	Exhibit 5	Can MPS provide more information about the Primary Storage for the "Common Drive" and "Users Drives"	Yes, both "Common and Users Drives are house on a physical servers and is approximately 40TB.

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21.	Exhibit 5	How much storage is being used in the Primary Storage	The current EMC VNX 5300 is 80TB
22.	Exhibit 5	Is there any need now or in the future to replicate the entire solution to another physical location for resilience	Yes to Smyrna TN.