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System Integration Team
COTS Qualification Test Report
DELKIN DEVICES USB 3.0 MultiMedia
Card Reader

5.19

10/20/2023

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Purpose

Reason for Qualification: Adding Delkin Devices USB 3.0 multimedia card reader in anticipation of future demand

Scope of Testing

1. Qualify on **D-Suite 5.19** release with the following Components:
 - a. ICP2 (PCOS -330A - S/N : VAL20490000)
 - b. ICE (2.3 S/N: CAFEBDD0020)
 - c. Delkin Devices USB 3.0 Reader - SD UHS-II & CF UDMA 7 (LAB-DDREADER-44)
 - d. Dell Precision Tower 3460 (1D160R3) - Express Server
2. Execute SIT Team's COTS Qualification Test Plan via Test Rail.

Test Status

- 100% Tests completed.
- **100% Passed**

Test Summary

D-Suite 5.19 Build was used to run functional qualification tests.

Election Project Name:	5 19 San Francisco
ICP2 / ICE Application Version :	5.19.1.1
ICP2 / ICE MBS Version:	MBS ICP2 5.19.1.1 QA CA 5.19 (June 20, 2023) MBS ICE 5.19.1.1 QA CA 5.19 (June 20, 2023)

Conclusion:

Delkin Devices DDREADER-44 - [DVS Part Number : 123-000625] - COMPLETED - PASSED

JIRA Ticket : [COTS-121](#)

System Information

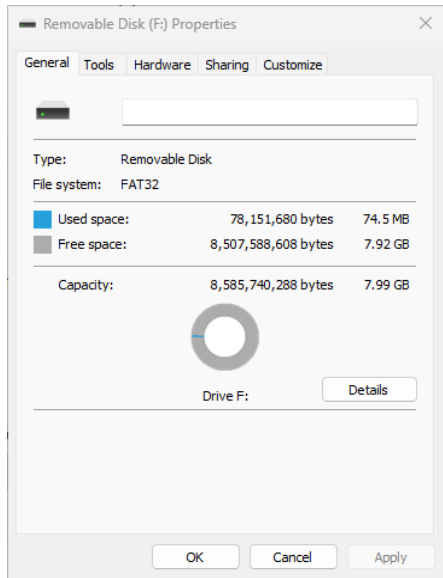
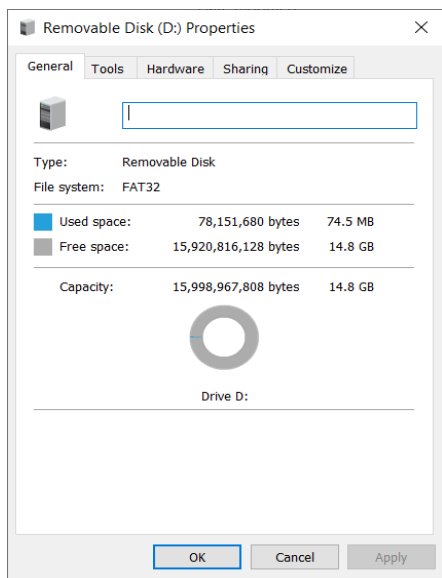
Express: Dell Inc. Precision Tower 3460 (Service Tag: 1D160R3)	
System Specifications	12th Gen Intel(R) Core(TM) i5-12500 (Quad Core 3.00GHz)
Memory	Express System with Raid Drives has 16GB
Hard Drive	File System NTFS Size 500 GB (499,273,166,032 bytes)
Operating System	Windows 11 Pro (22H2), Oct 2023

Cards

Apacer SDHC 8GB AJ3.148FSA.00105 BiSC5 Memory Card

Centon CompactFlash 16GB PN: C4-CM-CF-16.4

Metrics

	Apacer SDHC 8GB	Centon CompactFlash 16GB
Election File Burning Time (613 Precincts connected to 1 tabulator)	Primary card: ~16 seconds Secondary card: ~7 seconds	Primary card: ~32 seconds Secondary card: ~10 seconds
RTR Uploading time (5000 ballots)	~ 10 minutes	~ 16 minutes
Primary card Capacity after burning	 <p>Removable Disk (F:) Properties</p> <p>Type: Removable Disk File system: FAT32</p> <p>Used space: 78,151,680 bytes 74.5 MB Free space: 8,507,588,608 bytes 7.92 GB</p> <p>Capacity: 8,585,740,288 bytes 7.99 GB</p> <p>Drive F: <input type="button" value="Details"/></p>	 <p>Removable Disk (D:) Properties</p> <p>Type: Removable Disk File system: FAT32</p> <p>Used space: 78,151,680 bytes 74.5 MB Free space: 15,920,816,128 bytes 14.8 GB</p> <p>Capacity: 15,998,967,808 bytes 14.8 GB</p> <p>Drive D: <input type="button" value="Details"/></p>

Test Rail Results

Test Summary Report is available on the following link:

https://dvsqa.testrail.io/index.php?/runs/view/5131&group_by=cases:section_id&group_order=asc

Tests & Results		
CF Card / CF Card Reader (5)		
Test Cases under this section should be executed and verified to qualify a new CF Card / CF Card Reader for new or existing D-Suite Customer.		
ID	Title	Status
T1493268	Burn Primary Card for ICE tabulator using EED.	Passed
T1493269	Burn Backup Card for ICE tabulator using EED.	Passed
T1493270	Load Primary & backup card and startup ICE.	Passed
T1493271	Load ICE Results, Images, and logs using RTR.	Passed
T1493272	Load ICE results with 5000 Images using RTR.	Passed
SD Card / SD Card Reader (9)		
Test Cases under this section should be executed and verified to qualify a new SD Card / SD Card Reader for new or existing D-Suite Customer.		
ID	Title	Status
T1493273	Connect SD Card Reader to EMS Workstation.	Passed
T1493275	Burn Primary Card for ICP2 tabulator using EED.	Passed
T1493276	Burn Backup Card for ICP2 tabulator using EED.	Passed
T1493277	Load Primary & backup card and startup ICP2.	Passed
T1493278	Load ICP2 Results, Images, and logs using RTR.	Passed
T1493279	Load ICP2 results with 5000 Images using RTR.	Passed
T1493280	Validate and publish all loaded results.	Passed
T1493281	Remove SD Card while burning primary or backup card	Passed
T1493282	Re-insert the ejected SD card while copying and re-initialize primary or backup card.	Passed