



# April 2018 Board Recommendation for the Expansion of the District's Storage Area Network (SAN)

This recommendation will support the expansion of the District's production and disaster recovery system. The capability to restore mission critical applications is vital to the District; due to the growth of applications, more storage is required. As part of the 2014 Bond Goal #4: Upgrade the Data Center and Infrastructure, this expansion will suffice through 2020.

Frankie Jackson and Greg Rhodes participated in the Board of Trustee meeting on **April 16, 2018** to request board for approval to expand the district's Storage Area Network (SAN) to 2000 terabytes which is estimated to carry the district's SAN needs through 2020.

**Storage Area Network (SAN) Data and Backup Evolution of Growth**

**1600% Increase As of 2018**

**3300% Increase Predicted by 2020**

- Backup to tape
- 150 tape library
- 400 GB capacity tapes
- Monthly tapes were sent offsite
- Backups were staggered because of time constraints
- Restores were slow and tedious

- Backup to disk
- Tape library still required for DR
- Restores and backups were much faster than tape
- Capacity was becoming an issue
- Non-redundant Controller

- 55 TB of backup storage replicated daily
- 28:1 dedup & compression
- 300+ servers backed up
- Retention limited to 30 days and less
- < 20% free space
- When free space is < 5%; backup/restore system shuts down

- 90 TB of backup storage replicated daily
- 28:1 dedup & compression
- No Retention limit
- Significant free space to 2020
- Mission critical backup needs met: eSchool upgrade, eFinance upgrade, Active Dir upgrade

