

# Real world observations from a Midsize Enterprise company transitioning to a Virtualized Environment



# SC Series Storage



## SC All-Flash



### Leading performance

High IOPS and throughput, low latency



### Leading efficiency

Advanced tiering, Intelligent Dedupe and Compression



### Enterprise features

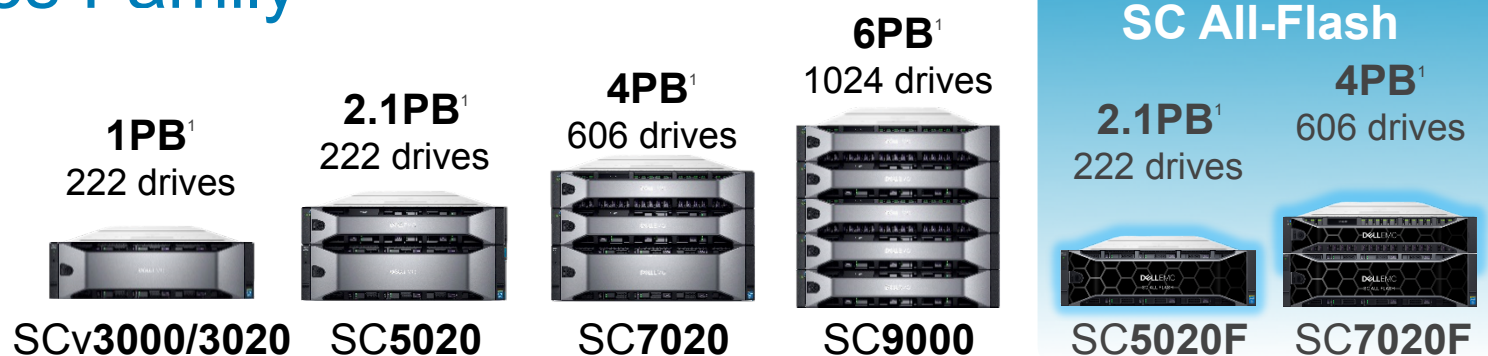
Federated, multi-protocol, highly integrated



### Lowest price

<\$1/GB effective for all-flash with all software included

# SC Series Family



<b>Memory/Proc.</b>	32GB 6c/1.7GHz	128GB 8c/2.4GHz	256GB 2x 8c/2.5GHz	512GB 2x 8c/3.2GHz	128GB 8c/2.4GHz	256GB 2x 8c/2.5GHz
<b>Media</b>	Hybrid (0-100% Flash)				All-Flash	
<b>Protocols</b>	FC, iSCSI, SAS		FC, iSCSI	FC, iSCSI, FCoE	FC, iSCSI	
<b>Data reduction</b>	Compression	Compression + Deduplication				
<b>Multi-array</b>	Federation (Live Migrate), Snapshot Mobility, Volume Advisor, Replication					
<b>Business continuity</b>	Sync Replication, Auto-Failover (Live Volume), Metro DR, RecoverPoint for VM, D@RE <sup>2</sup>					
<b>Management</b>	HTML 5 Unisphere for SC, CloudIQ, Dell Storage Manager, Openstack, QoS, Vvols					
<b>Architecture</b>	Dynamic RAID Tiering, Always Thin, Virtualized Page Pool, Distributed Sparing					

1 – Max raw capacities assume 7.3 firmware and 2MB page size. 4MB and 512K page size options also available. For maximum flash performance, 512K page sizes are recommended. Discuss performance and expansion capacity needs with your Dell EMC representative or Authorized Partner.

2 – External key manager

# Gerrie Electric

## Overview

- Canadian, family owned business in operation since 1957
- One of Canada's largest independent electrical distributors
- Annual sales in excess of \$150 million
- Well-known and respected in the industry
- Reputation built on service

## Markets Serviced

- Industrial, OEM, Contractor, Institutional, Commercial, IP Network, Utility, and Retail



# Business Challenges

## Operational Transition

- Moving from older HDD storage to flash
- First time implementation of Virtualized environment

## Speed and Availability

- Need real-time report generation
- Downtime not an option

## Customer Satisfaction

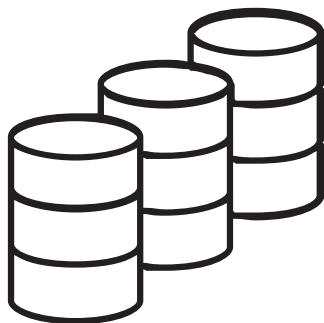
- Top priority
- Customers cannot tolerate downtime
- High customer satisfaction needed

# IT Challenges



## Business Needs

- 24X7 access
- Single support contact
- Ease of use and scale
- High performance
- Affordable



**SC Series Storage**

## Storage Solution



SC runs all SQL, ERP, CRM, email,  
Authentication Security



# Business Results

## Metrics

- 75% less power than before, space reduction from 12U-15U to 3U
- 40,000 IOPS reads of 2GB
- Negligible latency and zero wait for our customers
- Reads 2 GB sequential

## Customer satisfaction

- Data what they want when they want it
- Instant access to almost everything
- SC gives real time data, very fast, very efficient
- Reports in minutes rather than hours



# Virtualized Environment Recommendations

- Cloud Considerations
- Network Challenges
- VM Migration



**GERRIE**



**DELL EMC**

We're an all dell shop  
Unparalleled software services hardware support  
Easiest way to do business  
We need application and infrascture  
All mission critical apps (phone, ERP, databases) run on HW  
    we need the best, we partner with Dell  
    We cant afford downtime, everything has to be online all the time  
    extended hours for services, 24 hour support

We have PowerEdge servers 410, 810, PS series and SC7020  
    SC with all flash was desirable, easy migration from PS to SC  
    SC runs all SQL, ERP, CRM, email. Authentication Security

My experience with the SC Series  
    Fantastic numbers and performance  
    The SC series has exceeded expectations  
    We don't spend a lot of time reconfiguring or worrying  
    "it just works" and "it does what you want it to do"  
    It is the product they want for virtualized environments

## Results

- 75% less power than before
- 12U-15U to 3U
- 18 MB/s to
- Much faster 300 MB
- 40,000 IOPS reads of 2GB
- Negligible latency
  
- Reads 2 GB sequential
- Zero wait

## Customer satisfaction

- Data what they want when they want it
- Instant access to almost everything
- They insist upon it
- No wait times when customers are placing an order
- Eliminated wait times
- SC gives real time data, very fast, very efficient
- Reports in minutes rather than hours