

Click to edit Master subtitle style



PowerEdge VRTX

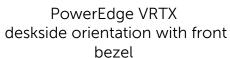
Agenda

- Customer benefits
- Product Overview
- Use cases
- Summary













Pervasive IT concerns in stand-alone offices & distributed ROBO

Complexity

- Complexity due to disparate hardware
- Hardware sprawl and lack of space

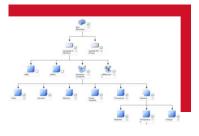
Inefficiency

- IT cost and TCO
- System downtime for maintenance
- Remote systems management inconsistent with data center tools

IT Rigidity

- Insufficient scalability to handle performance spikes
- Power compatibility
- High noise levels

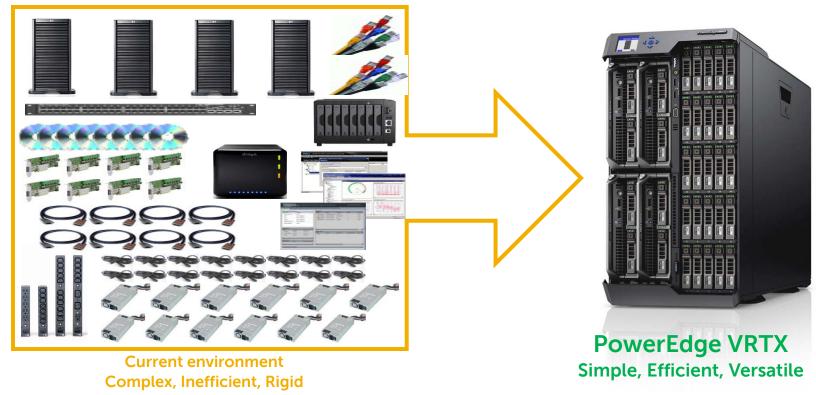








VRTX – Making the complex simple





PowerEdge VRTX – Financial Benefits

Delivering outstanding savings and TCO to drive business success

Compare to legacy tower servers:

- 26% lower 5-year TCO
- \$21K savings
- 33 month payback period





Compare to public cloud:

- 63.9% lower 5-year TCO
- \$172K savings
- 13 month payback period

Plug in the specifics of *your* IT environment into the PowerEdge VRTX TCO tool

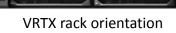
http://www.dell.com/PowerEdgeVRTXTCOTool

to see how VRTX can deliver financial benefits to your business

PowerEdge VRTX – Customer-inspired design

- Office-optimized dimensions, acoustics, and security
- Virtualization-ready
- Scalable, integrated shared storage to harness data explosion
- Simplified systems management
- Simplified networking to fit small business budgets
- Highly available and easy to service
- Flexible installation with both rack and standalone options.





VRTX deskside orientation





VRTX – Tailor configurations to specific needs

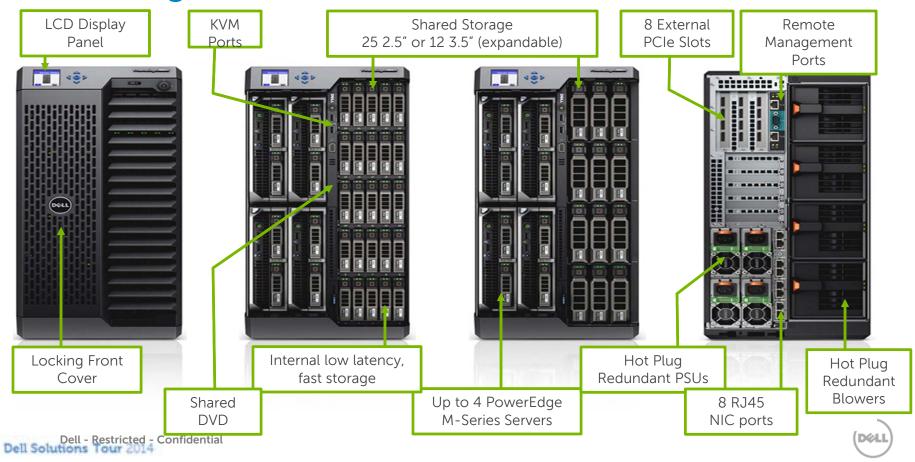
- Compute and Storage integration
 - 5U Tower Chassis (Rackable)
 - Up to 4 server nodes, hot plug and serviceable
- Shared Storage: Huge capacity with 12 x 3.5" or 25 x 2.5" hot plug HDDs
 - SAS, NLSAS, or SAS SSD hot plug drives
 - Optional redundant PERC for RAID controller failover inside the chassis
- Integrated networking Ethernet: 1GbE internal switch module
 - Optional Pass-Thru Module
 - Optional dual port or quad port 10GbE NIC on server nodes
- Flexible, expandable I/O 8 PCIe slots
 - 3 full height / full length
 - 5 low profile / half length
- High Availability Redundant PERCs/PSUs/Fans/Blowers: 1100W AC (2+1, 3+1, 2+2)
- Full Systems Management capabilities: Simple/Easy-to-use
 - Consistent with Chassis Management Controller in the data center
- Office level acoustics & power (100V 240V)



PowerEdge VRTX with 4 half-height server nodes and 25 2.5" HDD



PowerEdge VRTX – Front & Rear Views



PowerEdge VRTX – flexible installation



VRTX rack orientation with front bezel



VRTX rack orientation



VRTX in data center rack

- Standardize on same platform in offices and data center
- Upright orientation out on the office floor;
 Rack-mountable in 5u of space in IT
 closet or data center
- 100V 240V AC power (DC in future)
- Consistent management at ROBO sites and in data center



Drive performance with VRTX server nodes

• Feature-rich, 2-socket, half-height M520 & M620 and 4- socket, full-height M820 server nodes combine superb **performance** with exceptional **flexibility**



- •No compromise, enterprise-class high availability features
 - First to market with dual SD cards for redundant hypervisors
 - Many RAID options tailored to specific needs
 - Optional hot plug and swappable power supply units, HDD's and fans in the VRTX chassis
- Comprehensive, intelligent systems management



PowerEdge VRTX shared storage



Dell - Restricted - Confidential

- Reduces cost by eliminating external storage, and thus also the cabling, powering and management of external storage
- Enables Live Migration in a virtualized environment, inside the chassis
- All 4 server nodes have access to the full storage space
- Internal, low latency, fast storage
- Choice of up to 12 x 3.5" or 25 x 2.5" HDD
- Optional redundant PERC for high availability RAID controller failover inside the chassis
- Grow at your own pace, up to 48TB storage capacity inside the chassis

VRTX - simplified, versatile networking and I/O

Simplified networking and I/O

Integrated networking ports and industry-standard PCI slots reduce costs

8 Flexible PCIe slots

- 3 full height/full length PCI slots
- 5 small form factor slots
- Support for external JBOD enables storage expansion outside the chassis

Versatile network options

- Internal 1GbE 8-port pass-through module
- Internal 1GbE 24-port switch

PowerEdge VRTX rear view

• Up to 4 hot plug_redundant PSU's

• 8 RJ45 ports

• Up to 4 hot plug redundant blowers -

Dell - Restricted - Confidential Dell Solutions Tour 2014

VRTX simplifies systems management, too



Chassis Management Controller for VRTX



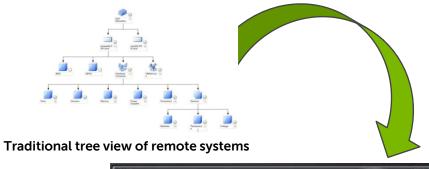
Chassis Management Controller (CMC) for PowerEdge VRTX

- Reduces complexity by converging management of server nodes, storage, networking and power into **a unified tool, presented in a single console**
- Intuitive, easy to use GUI reduces potential for error
- Consistent with CMC used in the data center, allowing IT Administrators to use what they know and reduce training time

Dell - Restricted - Confidential
Dell Solutions Tour 2014



Rapid assessment of remote system health





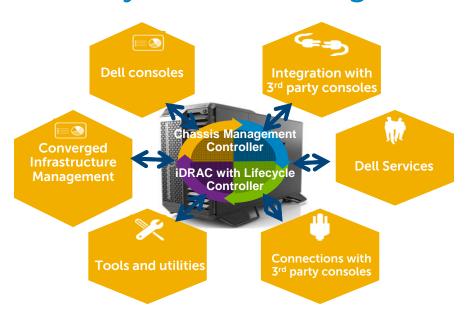
Geographical View for PowerEdge VRTX

Geographical View for PowerEdge VRTX

- Industry-first geographical view of distributed VRTX systems
- Rapid, at-a-glance identification of remote system location and health status via color-coded icons
- Easy to use and intuitive compared to traditional "tree" hierarchical view
- Seamlessly linked to OpenManage Essentials to perform management tasks



VRTX systems management - Levels of Control



Single office locations

 CMC converges management of servers, storage and networking

Datacenters

- CMC complemented by full suite of OpenManage tools including iDRAC7 with Lifecycle Controller
- Integrated with 3rd Party ecosystems (Microsoft, VMWare, BMC Software)

Remote management of multiple VRTX systems in multiple offices:

- OpenManage Essentials monitors and manages VRTX
- Geographical View maps VRTX location and health status



Solutions ecosystem driving universal appeal





PowerEdge VRTX – new capabilities

✓ Additional server node choices

Drive Tier 1, back-end workloads with 4-socket, full height M820 server node featuring huge memory capacity, wide network bandwidth, and low latency Express Flash storage

✓ Next-level data protection inside the chassis

Optional redundant PERC provides high availability RAID controller failover inside the chassis



Continued feature set parity between CMC in the data center and CMC on VRTX ensures system management consistency and simplicity

✓ Expanded support for VDI

Support for optional GPU enables VDI in ROBO



PowerEdge M820 full height, 4-socket server node







Picture Archiving and Communication System (PACS) for Healthcare

"VRTX is the ideal platform for our PACS system because it provides all the critical technology in one package to run our applications in a virtualized environment, and provide the resiliency needed in critical diagnostic environments."

Dirk De Keersmaecker, PACS Infrastructure Product Manager



PowerEdge VRTX Case Study: Cadac Group The Netherlands

"The beauty of the Dell PowerEdge VRTX chassis is that we gained a complete solution for our remote site, including servers, storage, networking and cabling."

"The entire infrastructure was up and running in no more than one day...
The proof of concept was so successful, we left the solution running exactly as it was."

Paul Smeets Chief Technology Officer, Cadac Group



Award-winning innovation delivers benefits



PowerEdge VRTX wins

IT Pro Innovation Award
on day of launch!



PowerEdge VRTX

CRN Server of the Year



InfoWorld "2014 Technology of the Year - Best Server"

Best in Show

Interop Japan

5/5 stars

Business Computing World, UK

"Dell PowerEdge VRTX stands alone addressing IT demands of remote and small offices"

Enterprise Strategy Group



PowerEdge VRTX
PC Pro "Server of the Year" for 2013



PowerEdge VRTX wins
InfoWorld.com "Editor's
Choice" award

Dell - Restricted - Confidential
Dell Solutions Tour 2014

PowerEdge VRTX – Benefits Summary





Dell - Restricted - Confidential Dell Solutions Tour 2014

Visit the Dell expo and explore VRTX

