We are the best of both worlds: Dell’s proven direct model and EMC’s storage product and brand leadership.

Dell’s proven business model and EMC’s storage product and brand leadership have come together to create a new family of storage solutions: Dell/EMC. You can now get end-to-end enterprise server and storage solutions – including hardware, software and services – from Dell, all with the single point of contact and simplicity of the Dell Direct Model.

The Dell/EMC family provides solutions for direct attached, storage area network (SAN) and network attached storage (NAS) environments. Dell/EMC FC5300, FC4500 and FC4700-2 fibre channel storage arrays provide highly available storage for a variety of workgroup, midrange and enterprise applications. The Dell/EMC storage offering also includes 8, 16, 32 and 64 port switches for consolidating storage in a SAN. The Dell/EMC IP4700 provides a scalable high-end fibre channel NAS solution optimised for sharing information over IP networks. And the Navisphere® management suite allows customers to configure, monitor and manage Dell/EMC arrays.

Because of the powerful performance, exceptional data integrity and availability, world class service and support, flexible deployment and comprehensive software management, Dell/EMC products offer proven technology for meeting your business requirements.

Visit www.euro.dell.com for more information.
Powerful performance delivers information fast.

Dell/EMC solutions deliver the ultra-high throughput required by your demanding applications. Dell/EMC storage arrays exploit the full potential of fibre channel by integrating a fibre channel disk interface that utilises a full 100MB/s bandwidth all the way to the disk drives. And the Dell/EMC SAN takes advantage of the processing power offered by up to four host bus adapters (HBAs) in a single server and dual array controllers operating in active-active mode.

The Dell/EMC FC4700-2 has four GBIC ports which can be individually configured to support one gigabit or two gigabit fibre channel connections. This gives you the custom tailored performance necessary for high bandwidth applications.

High availability and data integrity features help to reduce unplanned downtime and improve application deployment.

Full fibre channel features, such as fully redundant components and dual active storage processors, provide high levels of availability and data integrity. And, the patented designs provide two additional levels of data integrity: end-to-end checking of the data inside the disk array and parity coherence. End-to-end checksum provides a mechanism against data corruption, even after unexpected events occur. Data parity coherence helps protect against the possible inaccuracies that can be created during power outages and disk failures. These advanced features allow Dell/EMC storage systems to deliver data reliability under even the most adverse conditions.

High availability is further enhanced by Dell Storage Systems Remote Monitoring, which helps to minimise unscheduled outages by delivering automatic diagnostics and early warning signals for potential problems. And Application Transparent Fail-over™ software ensures that users always have access to information, even in the event of a failure in one of the data paths between the host and the Dell/EMC fibre channel array.

Dell Services deliver around-the-clock coverage for Dell/EMC storage systems.

Dell Premier Enterprise Services offers a comprehensive portfolio of planning, deployment, training and support services designed for mission-critical computing environments. With the Dell/EMC partnership, customers benefit from the synergy of Dell’s services now enhanced with EMC’s best practice methodologies, tools and customer training for complex storage systems. Dell Services help customers optimise the use of complex technologies, rapidly deploy new systems, and maximise system uptime – while helping to simplify enterprise computing.

Dell’s service business is significant with $3 billion in annual revenues, access to over 30,000 support technicians providing on-site service in over 170 countries, and over 6,700 Dell worldwide service personnel. Look to Dell as your single point of contact for end-to-end storage services: on-site, on-line and on the phone. Dell’s goal is to provide high-quality products and services at a low total cost of ownership.
Navisphere storage management software helps reduce overall storage management costs by simplifying the management of Dell/EMC storage systems. Navisphere provides a powerful set of capabilities that meets the ease of management and security requirements of today’s distributed environments. Navisphere applications such as Navisphere Manager, Event Monitor, Navisphere Integrator and Navisphere Analyzer allow you to configure, monitor and manage your Dell/EMC arrays. When combined with Access Logix™, you can also manage and control data access across multiple heterogeneous hosts in distributed SANs.

Navisphere software extends the capabilities of Dell/EMC FC4700-2 arrays by offering comprehensive data protection and availability through integrated and centralised control of optional SnapView™ and MirrorView™ software. MirrorView provides synchronous mirroring of critical data between two Dell/EMC FC4700-2 systems and is tightly integrated with SnapView point-in-time copy software. Additionally, Navisphere’s Nondisruptive Upgrade facility for the Dell/EMC FC4700-2 helps maintain 24x7 business operation and minimises scheduled downtime for maintenance, new application installation, or software upgrades.

Dynamic capacity growth and scalability give you the freedom to grow as needed.

The modular architecture of Dell/EMC arrays allows for seamless scalability from gigsabytes to terabytes. Simply add disk array enclosures. Capacity can be expanded on-line, and the systems can be dynamically and easily reconfigured to meet your changing business needs.

RAID flexibility for easy configuration.

The various RAID levels supported by Dell/EMC arrays allow them to be easily configured into storage pools for high performing distributed applications, balancing performance and cost. RAID protection is through the array, relieving the host from this task and saving precious host CPU cycles that can be used for other business needs. To allow customers to take advantage of the increased capacity of drives for maximum disk utilisation, Dell/EMC arrays support RAID groups and the ability to create logical unit numbers (LUNs) within the RAID group. Dynamic Expansion allows physical drives to be added to an existing RAID group while the system is operating, providing you with the flexibility to allocate and redeploy storage to different users.

The flexible deployment model allows you to respond quickly to changing storage requirements.

To facilitate standardisation and consolidation, the Dell/EMC storage solutions have a number of connectivity options. Fiber channel storage arrays can be directly attached to a single host or multiple heterogeneous hosts with a variety of operating systems, through major clustering software or to SANs. The Dell/EMC FC4700-2 can be redeployed in a NAS environment as a Dell/EMC IP4700 by simply swapping its storage processors and attachment personality, loading file system support software, configuring the file systems and loading data.

**DELL PREMIER ENTERPRISE SERVICES**

Dell offers a broad portfolio of services designed to help organisations optimise their use of Dell/EMC technology, rapidly deploy systems, and attain the highest possible level of system uptime.

**Consulting and Deployment Services (Required)**

- Pre-Sales Design and Site Readiness Assessment (Gratis)
- Hardware Installation – On-site installation of Dell/EMC storage systems, rack mounting of systems, connection to power sources, and power-on of devices
- SAN Implementation – System planning, design documentation, select software installation, configuration of switches, SAN cabling, host connectivity, creation of storage groups, product orientation session, and extensive custom options

**Standard Support Services for Dell/EMC Systems (Required)**

Dell Gold-Level Premier Enterprise Support Services featuring:

- 24x7 high level engineer-to-engineer support with direct access to Gold Queue
- Technical account management team
- 24x7 4-Hour On-Site Support
- Remote software and storage support – unlimited resolutions
- Storage system remote monitoring
- Pre-Failure Alert Program
- Seamless support between Dell and key third party providers
- Change notification/software subscription

**Optional Services**

- Customer training
- Proof-of-concept at Dell Application Solution Centre
- Backup and recovery design and implementation
- SnapView and MirrorView implementation
- On-site engineers, on-site parts
- Data migration
- Data replication
- Storage healthchecks

For additional information, visit www.euro.dell.com/Services
## DELL | EMC Storage Family

### Features

<table>
<thead>
<tr>
<th>DELL</th>
<th>EMC FC900</th>
<th>DELL</th>
<th>EMC FC5300</th>
<th>DELL</th>
<th>EMC FC4700-2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum servers directly attached</strong></td>
<td>2</td>
<td>2</td>
<td>4</td>
<td></td>
<td></td>
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<tr>
<td><strong>Maximum servers attached to a single array via SAN</strong></td>
<td>2</td>
<td>15</td>
<td>64</td>
<td></td>
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</tr>
<tr>
<td><strong>Maximum storage capacity per subsystem</strong></td>
<td>Up to 1.6TB</td>
<td>Up to 2.2TB</td>
<td>Up to 6.4TB</td>
<td></td>
<td></td>
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<tr>
<td><strong>Maximum number of drives</strong></td>
<td>Up to 36 drives</td>
<td>Up to 100 drives</td>
<td>Up to 126 drives</td>
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</tr>
<tr>
<td><strong>Performance</strong></td>
<td>12,000 IOPS per second</td>
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<tr>
<td><strong>RAID levels</strong></td>
<td>0, 1, 10, 3 and 5</td>
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<td><strong>Network connectivity</strong></td>
<td>CIFS, TCP/IP, SNMP, Fast Ethernet, NFS, UDP/IP, NDMP v2</td>
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<td><strong>Remote mirroring</strong></td>
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<td><strong>Storage capacity</strong></td>
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<td>Up to 14.6TB</td>
<td>Up to 8.8TB</td>
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<td><strong>Dimensions (H x W x D)</strong></td>
<td>3.5U: 6.07 in. x 17.5 in. x 24.75 in.</td>
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### Notes

- Availability, prices, and specifications are correct at the date of publication and may change without notice.
- Response times may vary depending on the remoteness of the location.
- Performance metrics are based on theoretical maximums and may vary depending on the specific configuration and workload.
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