

*If your school had to close for a while at short notice, would your teachers and students be able to continue teaching and learning?*



Use in school ...

**With DMS Omni, they can!**

... or from home (or anywhere!)



*As the spread of Swine flu alerts the country to the very real possibility of school closures, now is the time to upgrade your network to allow students and staff to work from home – or anywhere!*

*DMS Omni is the provision of remote applications using a combination of Microsoft's TS Gateway on Server 2008, powerful and scalable Intel Multi-Flex servers and DMS' own consultation, installation and support services.*

*Of course, your school may never need to close, but DMS Omni is still a huge benefit.*

**Illness or injury** can keep students at home. If they are able to, they can log in and continue working so they don't fall behind. Teachers can set or mark work from home over the internet, rather than carry papers to and from school. And you can provide permission to parents to log in and monitor their child's progress.

**Remote Applications & Remote Access.** Using Microsoft's TS Gateway, this powerful solution speeds up your network and runs the desktop, or the application, remotely from a server. No applications or data are on the local PC, so "older" workstations can be used rather than replaced and no technicians' time is needed to keep workstations updated with the same software.

**Secure System.** DMS uses the same high security PKI certification that is used by the Ministry of Defence to give users a unique and secure login that can be used from their PC anywhere in the world.

**Intel® Modular Server** Built on Intel® Multi-Flex Technology

***A simple, flexible system that provides exceptional value***

At the heart of DMS Omni is a powerful Intel® Modular Server built on Intel® Multi-Flex Technology. This integrates storage, computing, and networking to simplify complex IT environments. The Intel Modular Server is designed for seamless installation, migration, and growth capabilities. It has the



ability to support up to six Server Compute Modules and 14 SAS 2.5" hard disk drives, as well as two Ethernet Switch Modules, integrated SAN, and a Management Module. The Intel Modular

Server is a flexible and powerful solution that is ideal for schools and colleges.



# Intel® Modular Server Built on Intel® Multi-Flex Technology

<b>Scalable Server Compute Capacity</b>	Supports up to six Multi-Core Intel® Xeon® dual processor-based Server Compute Modules.
<b>Virtual, Integrated Shared Storage</b>	Diskless Server Compute Modules utilize the integrated SAN with virtual drives to increase flexibility and maximize storage capacity. Purchase only what you need, when you need it.
<b>Virtual Presence GUI Management</b>	Manage your system as if you were standing right in front of it with the Virtual Presence GUI Management Interface.
<b>Integrated Networking</b>	Dual Gb Ethernet switches offer ten 1 GbE uplinks per module.
<b>Full Redundancy &amp; Hot Swap Capabilities</b>	Hot-swappable Server Compute Modules and storage drives let you increase capacity on-demand. Redundant modules and hot spare options improve IT availability of the Intel Modular Server.
<b>Flexible Power Options</b>	Chassis power supplies can utilize 100-240V power, eliminating special power requirements worldwide. The consolidated power and cooling features reduce operating costs.

## Chassis

The chassis can be configured as either a 6U rack mount or as a horizontal pedestal base to provide flexibility in choosing the right setup for you. It is designed to support multiple generations of Server Compute Modules, allowing swift upgrades to the latest computing technology.

## Storage Control Module

The Storage Control Module manages the Shared Storage Bay and connects to the Chassis Management Module. Features include:

- RAID 0, 1, 1E, 5, 6, 10
- Expansion to connect an external SAS RAID array through a mini x4 external SAS port to allow sharing of external storage with all Server Compute Modules
- Optional second Storage Management Module for redundancy and performance
- Battery backup
- Global and dedicated hot spares

## Ethernet Switch Module

The Intel Modular Server can be configured with

up to two Ethernet Switch Modules for redundancy. Each switch module features:

- Non-blocking wire-speed performance
- Ten external 10/100/1000 GbE full-duplex ports to provide enough performance to handle demanding applications
- Twelve internal 1 GbE full-duplex ports
- Layer 2+ features
- Switch configuration capabilities through the Management Module

## Management Module

The Management Module provides management capabilities for the entire system through a Virtual Presence GUI Management System. Virtual Presence GUI Interface features:

- Real time hardware information
- Context-sensitive actions
- Remote management
- Intuitive navigation with tabs and a navigation bar
- End-to-end management
- Direct device selection

- Web management via Microsoft® Internet Explorer\* or Mozilla\* Firefox\*

## Server Compute Module

The Server Compute Module MFS5000SI is based on the Intel® 5000P series chipset and supports Multi-Core Intel® Xeon® processors.

## MFS5000SI Features

- Supports up to two Multi-Core Intel® Xeon® processors
- Server has 8 FB DIMM slots for up to 32 GB of memory
- Integrated LSI 1064E SAS Controller
- Integrated Remote KVM, Remote Media Redirection, and Remote Serial Console.
- Front panel includes video and 2 USB I/O ports

## Mezzanine Card

The Server Compute Modules support an optional dual channel gigabit Ethernet Mezzanine Expansion Card.

## Schools are benefitting from the cost saving and efficiency of DMS Omni:

*"Applications appear as if they were being delivered locally from an up to date workstation".*

### Phil Trice

Network Manager, The Robert Napier School, Medway.

*"The Application on Demand feature is transparent to the user. I log into DMS Omni from home, on a broadband connection just in range of my local exchange, and files open instantly".*

### Francis Garner

Assistant Head, Maplesden School, Maidstone.

**Use Your Own PC:** *DMS' Omni solution satisfies the demand in many schools for students to bring in their own notebooks – without risk to the network.*

**Fully Secure:** *PKI certification ensures network access is tightly controlled. Users whose certificates have been revoked will be locked out.*

**Use Legacy PCs:** *All the power of Omni is at the server end. This means that old models can be stripped down and used effectively in this role, minimising cost.*

**Faster Applications:** *Applications accessed remotely can perform faster than those run locally!*

**Easier Administration:** *PCs no longer need as much attention, freeing up valuable technical time.*



*Design and Management Systems helps schools and colleges to optimise their network infrastructure, from one that is high on technician management time, to one that manages itself with minimal interaction, leaving technicians free to develop the network.*

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