

## Office Automation Series

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Communications technology is changing the way we do business and more. As technology continues to evolve at breakneck pace, business devices become more productive, more flexible in application, more portable, and more easily integrated with each other.

For Small and Medium Enterprises (SMES), having many separate machines for separate functions take up valuable office space and may not be cost-effective in the long run.



#### Separate machines for separate functions:

- Take up valuable office space
- Higher costs of ownership and administration
- Less flexible in application and integration

In this issue, we look at a case study of a project that our company 1000 Miles Network has recently completed for a client. In this project, we would like to showcase how technologies are being deployed to improve office productivity, yet at the same time lower the costs of ownership, reduce the complexities and simplify the management of the IT infrastructure.

These technologies include:

- Multifunctional Printers (MFPs) that combines the functionalities of a printer, a fax machine, a copier and a scanner into one, promising substantial saving in space and costs in maintenance, at the same time uncompromising on cost-to-performance.
- Print Servers that allow network users to seamlessly share non-networked printers on the office network.

# Case Study: Quantum Marine Works



## Client Profile

**Company Name:** Quantum Marine Works Singapore Pte Ltd

**Industrial Sector:** Marine Engineering

**Quantum Marine Works**, located in the West Coast of Singapore, run a self-contained office and workshop plant, well-equipped with essential range of tools, equipment and machinery in support of the vibrant Marine industry.

The company is committed to uncompromising quality and the highest standards, in every work carried out from fabrication to repairs, reconditioning and overhauling.

## The Background

In early of year 2006, **Quantum Marine Works** embarked on a business expansion plan and decided to relocate its one of its office and workshop to new premises.

Timeline was tight. Within 3 months, the new premises have to be renovated and ready for occupancy. The actual office relocation was planned to take place over a two-day weekend, so that business operations will not be disrupted and a seamless transition can be achieved.

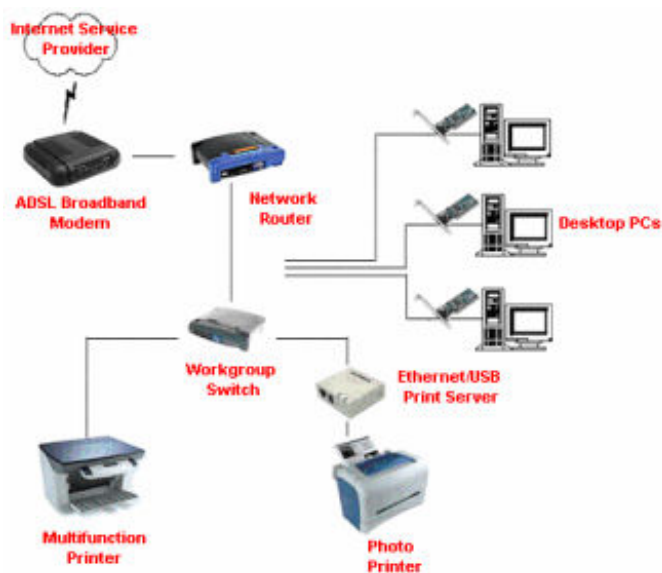
## The Challenge

**Quantum Marine Works** needed an Internet-ready office network and an enterprise-wide IT solution that can cater for its current needs as well as anticipated future growth.

The company also intended free up valuable office space by consolidating the office IT equipments from a disparate range of standalone desktop printers and scanners, copier and fax machines (some redundant, some inefficient and obsolete, mostly not networked) into something more unified, cost effective and easier to administer.

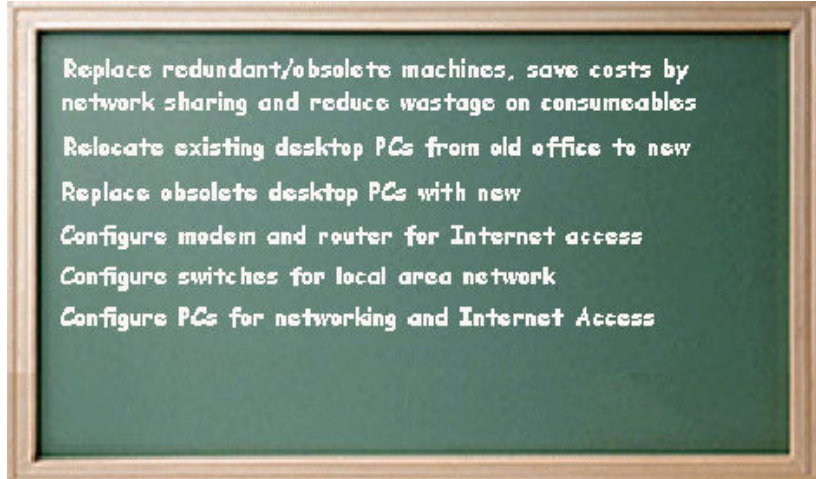
Once the new infrastructure had been implemented and tested, users had to be relocated to the new site immediately over a two-day weekend period.

These requirements led **Quantum Marine Works** to us again — **1000 Miles Network (AP) Pte Ltd**. We were invited for a site survey, to help establish the initial specifications and devise the office relocation strategy.



## The Office Solution

With the agreement in place, **1000 Miles Network** conducted a company-wide technology and IT infrastructure review was conducted before drawing up the project plans:



It was determined that the office would have a monochrome laser-class multi-functional printer for high capacity mono printing, copying, scanning and faxing. Additionally, a special-purpose photo printer that offer fast, high-resolution color borderless printing and allow print direct from memory cards as well as PictBridge-compliant cameras was required.

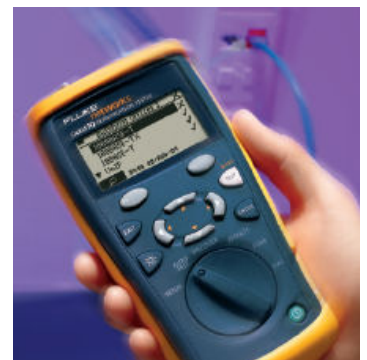
After much deliberation, the chosen solutions were the Canon imageClass MF5770 Multi-Functional Printer and Canon ip6600D Photo-Direct Printer. Because the Canon ip6600D comes only with USB connection, the printer cannot be directly accessed on the office network, hence requiring an Edimax Print Server provide the USB-to-network conversion to allows the photo printer to be seamlessly shared among all the LAN users.

## The Office Relocation

On the actual day of implementation, we physically migrated the existing PCs from the old premises to the new. The printers and new PCs have already been purchased and delivered to the new premises a few days ahead.

The desktop PCs were first unpacked, then installed with the necessary software and device drivers. The voice, data and fax lines are tested, qualifying support for the network connectivity and throughput as required by our client.

The ADSL broadband modem was reconfigured for Internet access. Network router and switches are then put into place, before patch cables were laid to interconnect the desktop PCs and printers. After all the equipments have been successfully verified working, the new infrastructure is officially commissioned and handed over to **Quantum Marine Works**, well ahead of the two-day weekend schedule.



## The Benefits

Through synergistic collaboration, **1000 Miles Network** helped **Quantum Marine Works** relocate its office from the old premise to a new, within budget and on time. At the same time, we ensured that the solution is resilient and scalable, catering for future expansion.

The technology refresh resulted in a reduction in inventory, allowing **Quantum Marine Works** to exercise greater control, increased efficiency and lowered the burden of IT administration and an overall reduction of operational costs..

“ We have found the personnel from 1000 Miles Network very professional and knowledgeable in suggesting and upgrading our IT infrastructure to suit our growing needs. They have been helpful and accommodating in meeting our requests and deadlines, we are very pleased with the cost effective solutions provided and will continue to call on them when our future IT needs arise”

— Victor Wong, Quantum Marine Works Pte Ltd

## Product Highlights

### Canon imageClass MF5770

The Canon imageClass MF5770 is an all-in-one flatbed, laser printer, fax, color scanner and copier, complete with built-in network connectivity for network printing and PC faxing.

**Print:** 20 page per minute, mono laser, 1200 x 600 dpi max. print resolution

**Copy:** 20 copies per minute, 600 x 600 dpi, with 2-in-1 option

**Scan:** 48/24-bit color depth, 1200 x 2400 dpi resolution with CCD technology

**Fax:** 3 seconds per page, standalone Super G3 fax modem

**Recommended Retail Price:** SGD \$999 w/GST, 2 years limited warranty (promo)



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### Canon PIXMA ip6600D

The Canon PIXMA i6600D is a high-speed bubble jet, photo direct printer for fast, superb quality photo prints, allowing print from a range of sources: popular memory cards, PictBridge-complaint digital cameras or mobile phones. LCD displays aid printing without PC and uses Canon's new ink technology for long lasting photos.

**Print (Black/Color):** 18ppm/17ppm, plain paper

**Print (Photo):** 46secs, 4x6" PP101/Standard/Borderless

**Interface:** USB 2.0 high-speed

**Recommended Retail Price:** SGD \$469 w/GST, 1 years limited warranty



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### Edimax PS-1206P Print Server

The Edimax PS-1206P is a port 10/100 Fast Ethernet-to-USB Print Server, support both peer-to-peer and server-based printing, allowing network clients to seamlessly share a printer on the office network. Support DHCP for easy network integration.

**Network Port:** One 10/100Mbps auto-sensing port, IEEE 802.3/802.3u standards

**Printer Port:** One USB 2.0 printer port that connect to printer's USB port

**Recommended Retail Price:** SGD \$130 w/GST, 1 years limited warranty



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**Contacts:**


**Sivakumaran  
Balakrishnan**

**1000 Miles Network (Asia Pacific) Pte Ltd**  
**千里网亚太有限公司**  
57 Bridport Ave, Singapore 559347  
HP:65-92973460 Fax:65-67648896  
EMAIL:sivakumaran@1000miles.net URL:www.1000miles.net



**Pang Tee How  
冯世豪**

**1000 Miles Network (Asia Pacific) Pte Ltd**  
**千里网亚太有限公司**  
57 Bridport Ave, Singapore 559347  
HP:65-98511999 Fax:65-67648896  
EMAIL:pangth@1000miles.net URL:www.1000miles.net

**Corporate Information:**

**1000 Miles Network** is a turnkey IT solution provider since 1999, that offers value-added consultancy services for :

**Network Connectivity**

Structured cabling, LAN/WAN, Mobile/Wireless, VPN, Proxy Squid, AAA-Radius, DNS/Bind, Routing/Switching

**Systems Integration**

MS Windows, Sun Solaris, IBM AIX, Linux variants, Open Source technologies

**Office Automation**

Mail and Messaging (SMS/MMS/Fax), Print, Scan, Copy, Imaging Solutions, Directory Services, Content Management solutions

**Industrial Automation**

Turnkey Automation and Control solutions for building and facilities, Data Acquisitions, Controllers, Sensors, Monitoring/Alerts, Public Address, Security Access, CCTV/DVR solutions

**Power Distribution**

Electrical Power Conditioning and Grounding, Uninterrupted Power Supplies

**Storage and Backup**

Tapes and Storage Media, Optical Jukeboxes, Network Attached Storage, Storage Area Network, Multimedia solutions

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