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M@C57 Multifunctional Thin Client



What is Thin-Client computing?

Thin-client or Server-based computing is a solution where all the applications are deployed, executed, managed, and supported on a central server. The application is accessed from any client device, ready for this environment.

OVERVIEW

Deploying a server-based computing solution will allow you to benefit from the advantages of the hosting model with a quick return on investment (ROI).

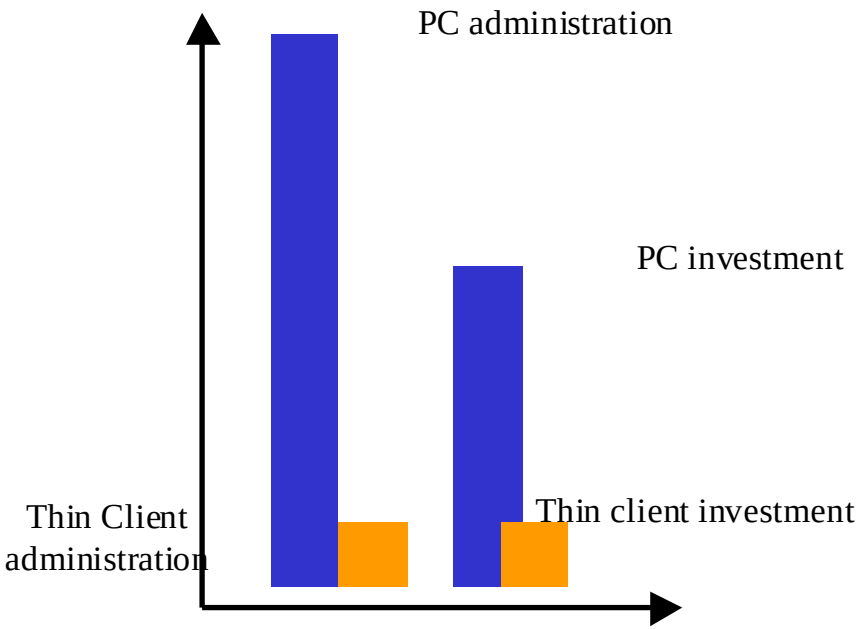
This model appeared a few decades ago with the mainframe/green terminal architecture (Wyse X terminal).It grew into a more graphics-rich solution with the UNIX server/UNIX terminal model. Technologies are now mature to turn this architecture into a mainstream mode, offering a solution for any type of application accessed by any type of client.

BENEFITS

There are six main benefits for deploying server-based computing:

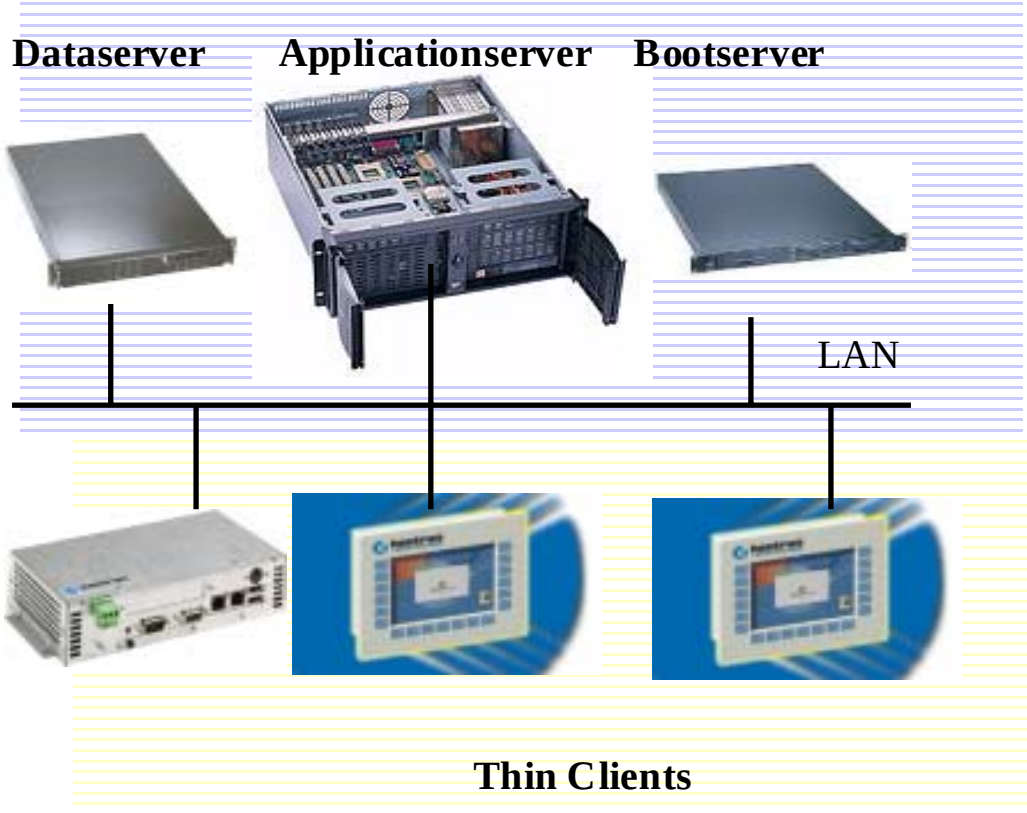
- **Savings:** reduce the IT cost per user between 20% and 75%
- **Manageability:** by centralizing the applications, administration is efficient and convenient
- **Speed:** accelerated deployment of new applications or upgrades through the organization
- **Scalability:** a modular solution which can easily be evolved
- **Simplicity:** move the complexity from the end-user to the IT department
- **Security:** optimize the control of the data and access

Costs



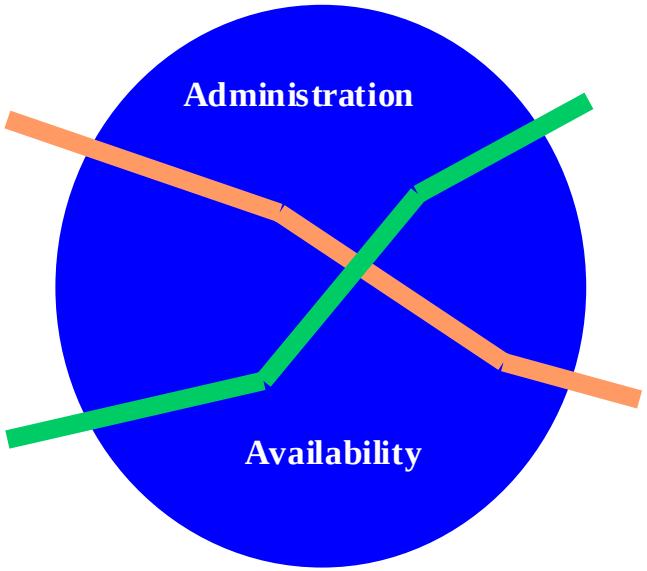
A superior price/performance ratio compared to traditional technologies is achieved through a combination of reduced hardware costs, reduced maintenance and support costs, reduced down time and enhanced security.

Security



All information, working material as well as applications and configurations stay on the servers. A server environment is easy to protect from intruders and has perfect climate and stable power.
All data is protected by the backup system. Confidential data will not leave the building unless authorized.

Efficiency

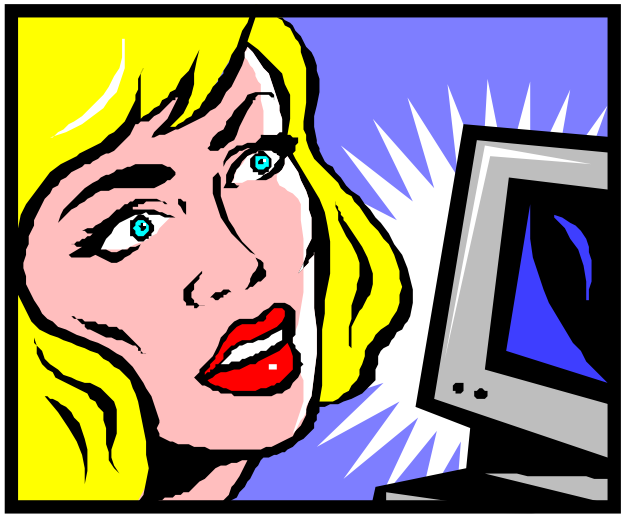


High availability, and the lack of local hard disk related problems, makes the user spend more time on his actual tasks than on administering the workstation.
Central administration lets the IT department focus on functionality, not on specific problems. Central application installation and maintenance lowers administration time radically. Instead of complicated local user settings, all parameters are associated with accounts or groups.

Availability

All parts of the server are be built with redundancy Installation and upgrade may be performed on line. Load balancing and automatic fail-over functions are natural parts of the system.
The Thinclients are without any rotating device (Fanless Diskless) so the availability is eminent high

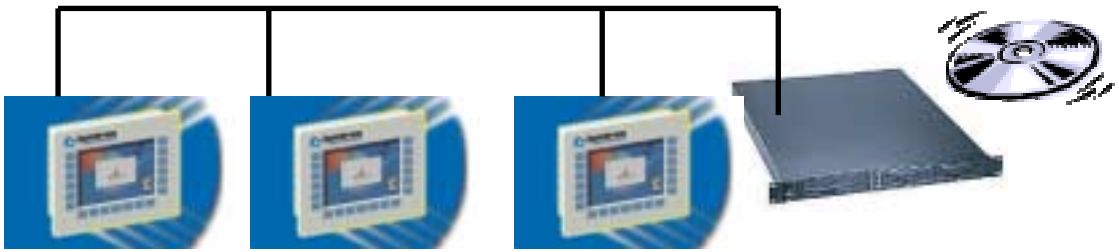
Ergonomy



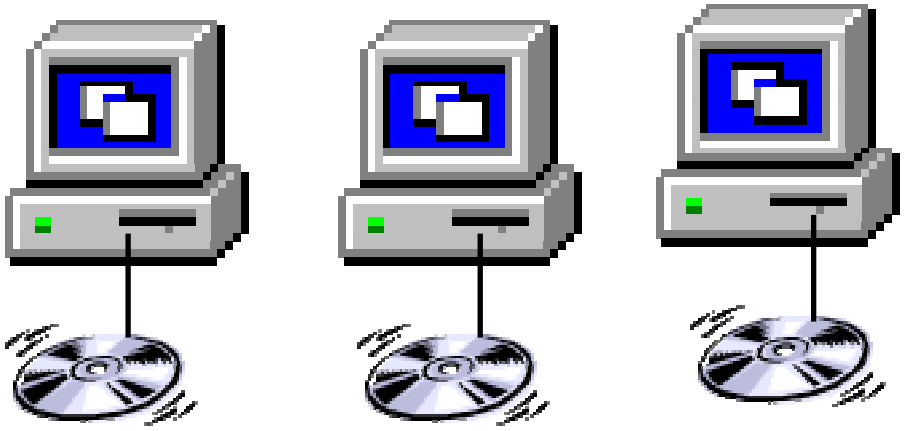
The environment in which the user spends all day becomes much friendlier. The thin client is silent, no noise from fans or hard disks. Space space is saved, as the units are extremely compact. Furthermore, there is minimum heat and no radiation.

Central Instalation and Upgrades

Client Server Architecture

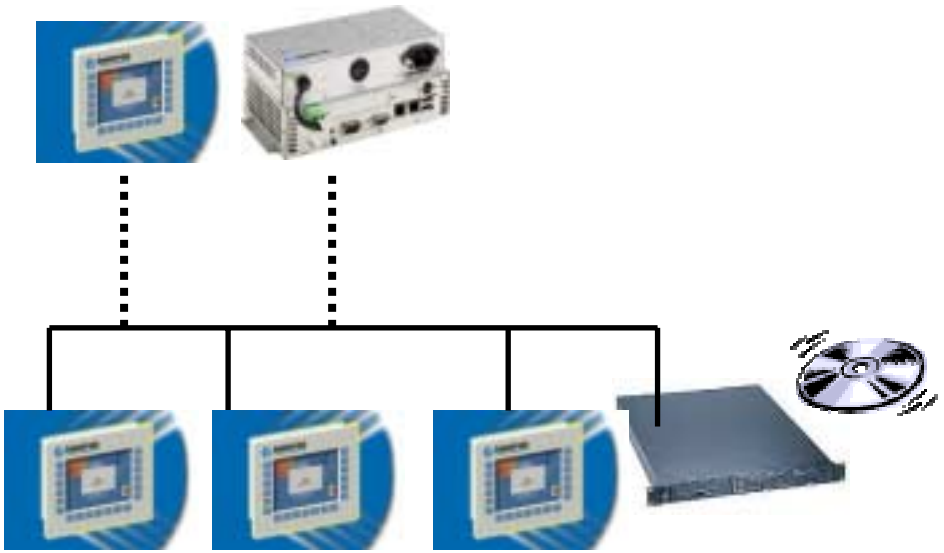


PC LAN



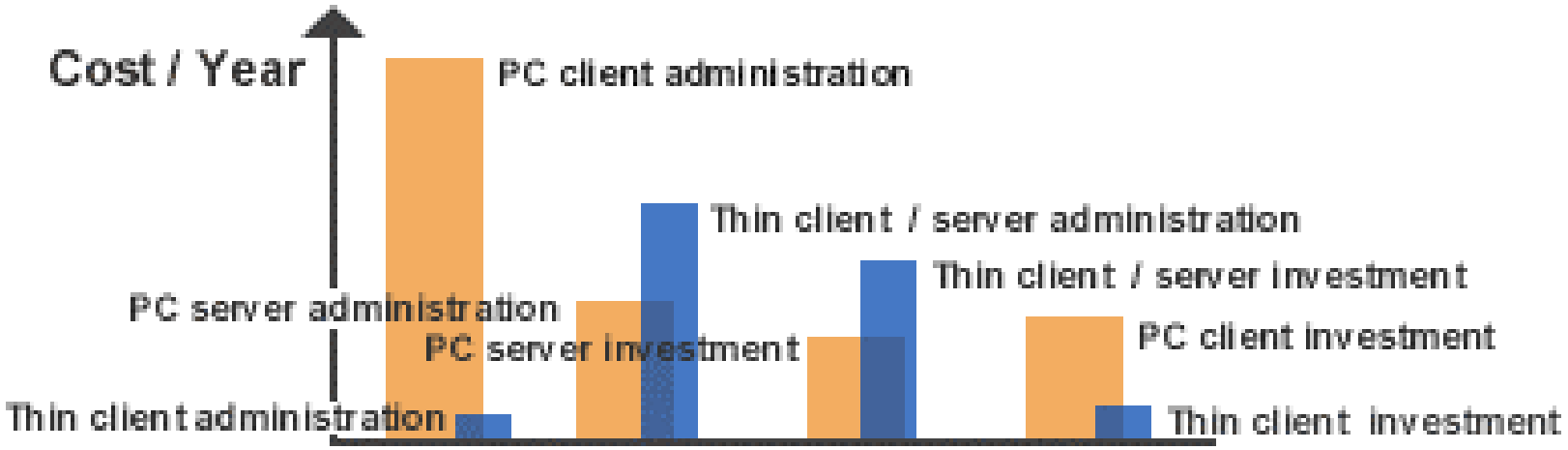
Installations of new applications are performed from one single place, even during production. The system administrator has full control over the number of licenses and is sure that everyone is running equal software versions.

Easy replacement



Clients contain nearely no information, making hardware replacement a five-minute task. This may be performed in the middle of a session without saving data, even to a new brand of thin clients. New workplaces are as easy to add because there is no local installation nesseccary.

Cost savings



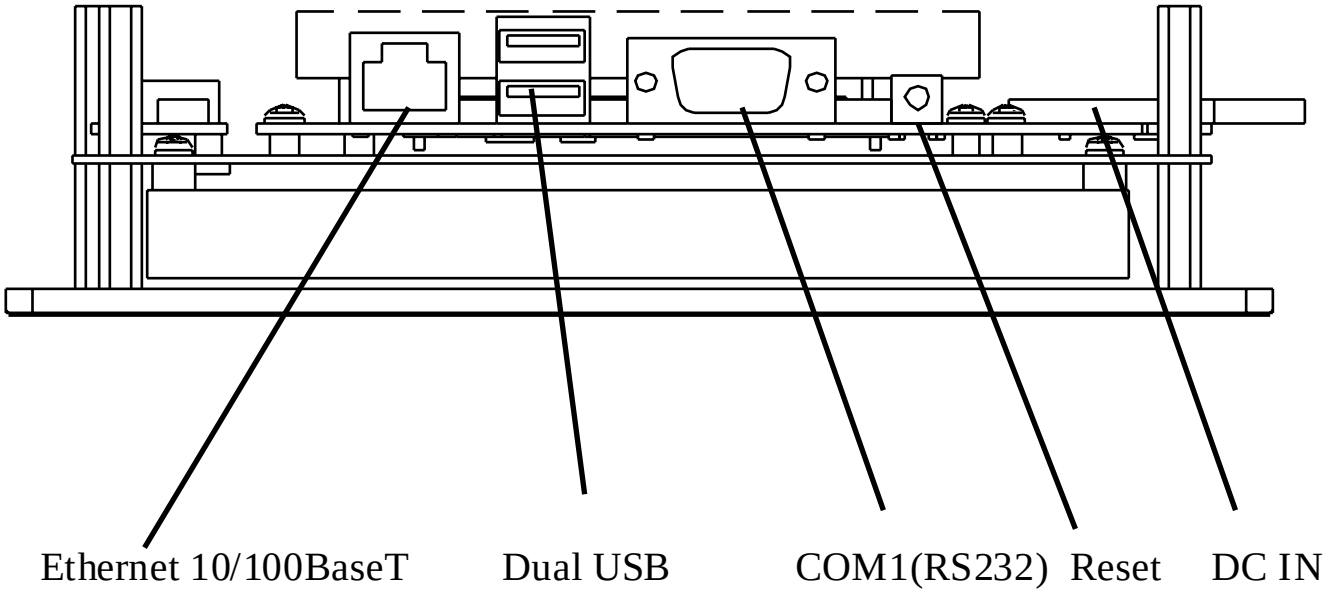
Independent investigations (Gartner, Zona, IDG) shows that there may be cost savings of up to 40% by implementing thin client technology.
Cost savings are due to a combination of lowered maintenence, less downtime, fewer upgrades and lower investment.

TCO

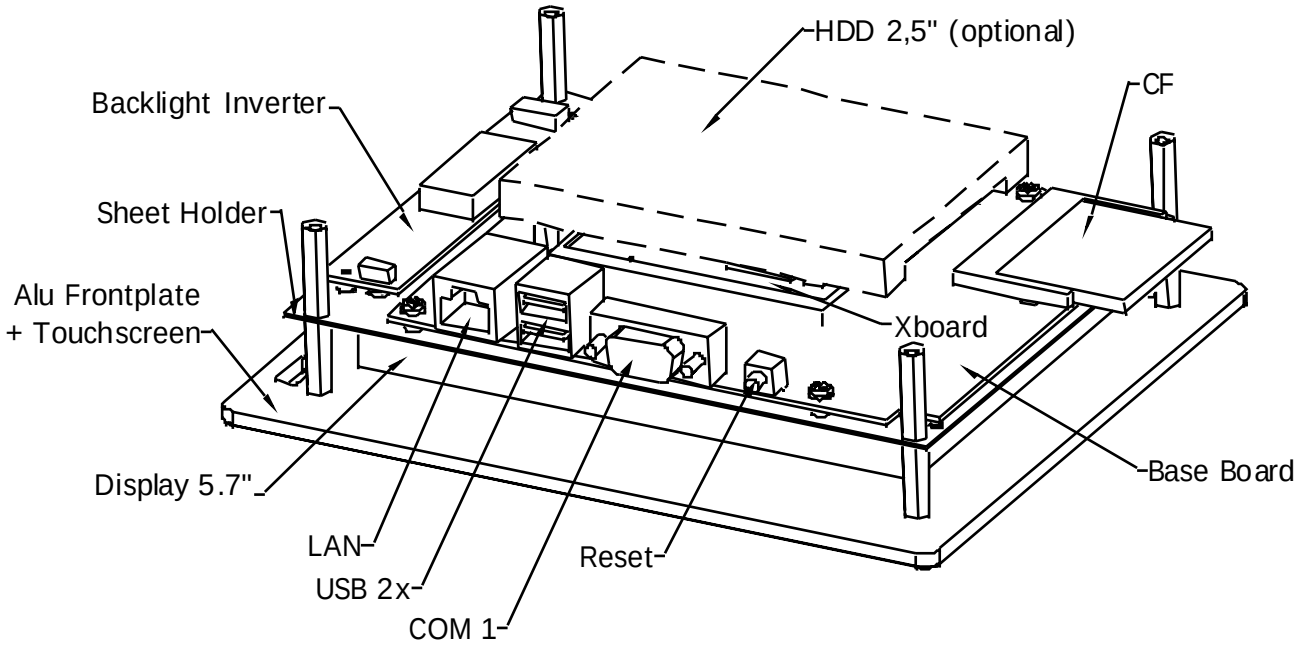
Independent investigations (Gartner, Zona, IDG) tells the total cost (including upgrades,production stops and administration) to be between $8000 and $15000 annually. In many organizations, the real cost is even higher due to productivity that is lost to individuals waiting for help with broken PCs or users spending part of their time as system administrators for their own PC.

The central administration and application installation concept, in combination with the improved security and reliability achieved from diskless clients, gives reductions of the TCO of up to 40%.

I/Os M@C57



Mechanical Concept



Technical datas M@C57

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Display	***TFT***	***STN***
Resolution	320 x 240	320 x 240
Brightness	350 cd/m2	201 cd/m2
Viewing Angle	12 o'clock	6 o'clock
Colors	262144	242144
Board Support(Xboard)	SC1200 Geode	
	-Module with 32MB SDRAM & 32MB Flash	
	Module with 128MB SDRAM & 128MB Flash	
Compactflash socket	Up to 1 GB	
Powersupply	24 V DC internal (18-36 V)	
Touchscreen	Resistive with 19 Softkeys	

Specification M@C57

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Temp. / Humidity (operating)	0…50 °C / 5-95 % @ 40 °C not condensing
	(32…122 °F / 5-95 % @ 104 °F not cond.)
Temp. / Humidity (storage)	-25…70 °C / 0-95 % @ 40 °C not condens.
	(-13…158 °F / 0-95 % @ 104 °F not cond.)
Altitude (operating)	10 000 ft (3 048 m)
Altitude (storage)	50 000 ft (15.240m)
Shock (operating)	5 G, 11 ms duration, 6 axis, half-sinus
Shock (storage)	30 G, 11 ms duration, 6-axis, half-sinus
Vibration (storage)	1 G , 10 to 500 Hz
Protection Class	IP 65 (Front side)
Acoustic Noise	Diskless , Fan less system
Operatingtsystems	Windows CE Dot NET, Windows Embedded XP, Emb Linux
Certifications	CE, designed to meet UL and TUV
Dimensions	156* 186**43