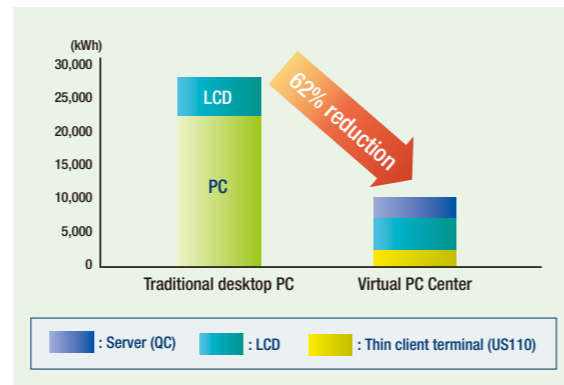## Virtual PC Center

### System-wide energy savings of up to 62% over traditional PCs

VPCC automatically reduces the number of virtual PC servers operating during times of reduced workload, such as overnight or on holidays, by autonomously detecting server operating status and consolidating loads to run on as few servers as possible. Servers that are no longer being used are shut down to reduce energy consumption. When the volume of operating virtual PCs increases, such as at the beginning of office hours, the servers are automatically restarted as needed and virtual PCs are reallocated. These features result in the optimal number of servers running at any time of the day, achieving system-wide energy savings of up to 62% in annual energy consumption over traditional PCs.
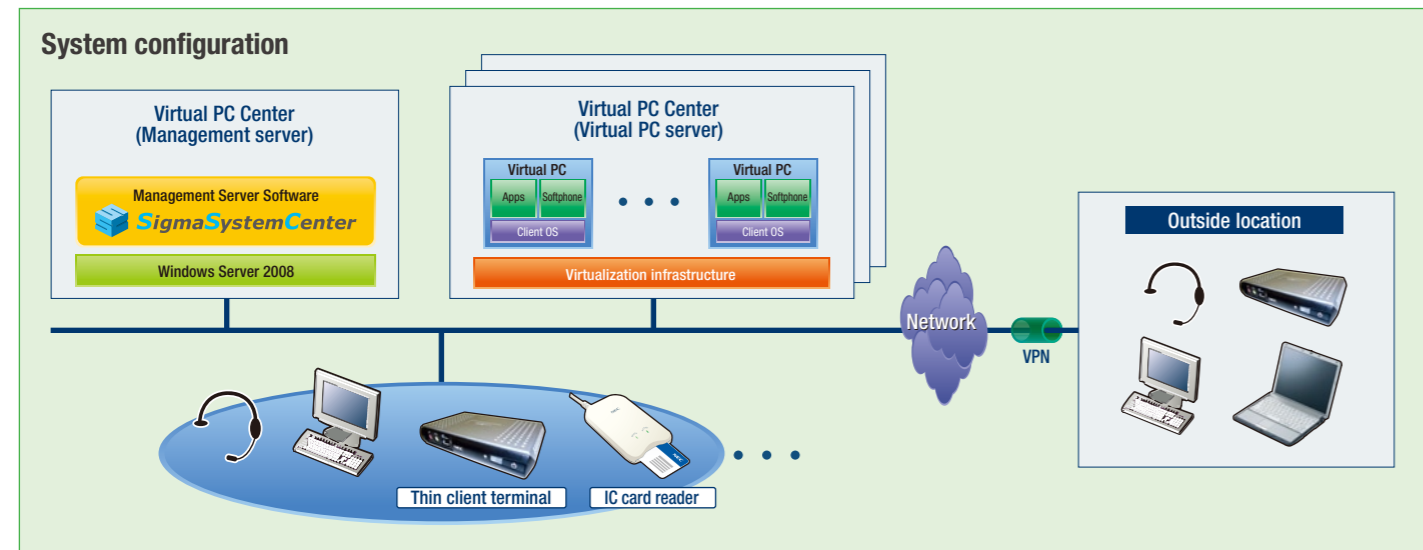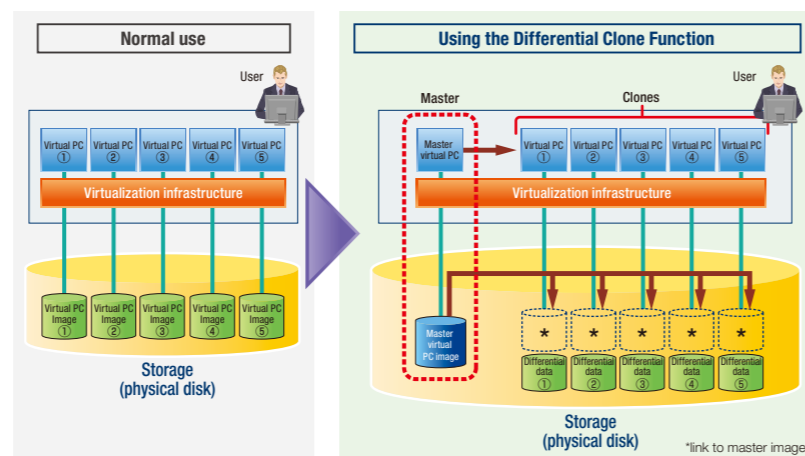
\* Energy consumption measurements based on annual operating condition of 8 hours/day, 247 business days/year with configuration shown below.
  Traditional desktop PC: 200 desktops and 200 LCDs
  Virtual PC Center: 200 thin clients (US110) and 200 LCDs



62% reduction

Traditional desktop PC — Virtual PC Center

■ : Server (QC)    ■ : LCD    ■ : Thin client terminal (US110)

### Reduce storage space and simplify administration of virtual PCs

The Differential Clone Function (optional) links clones to master virtual PCs to enable rapid creation of multiple virtual PCs from a single master image.

- Virtual PCs are managed by master image and differential data to reduce storage space requirements.
- Additional virtual PCs can be created quickly by simply modifying the differential data.
- Patches and applications applied to master images are precisely reflected to linked virtual PCs.
- Multiple versions of master virtual PCs are supported to enable efficient and flexible management.



Normal use — Using the Differential Clone Function

### System configuration



Virtual PC Center (Management server) — Management Server Software — *SigmaSystemCenter* — Windows Server 2008

Virtual PC Center (Virtual PC server) — Virtual PC — Apps — Softphone — Client OS — Virtualization infrastructure

Outside location

Network — VPN

Thin client terminal — IC card reader

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## Virtual PC model thin client system

# Virtual PC Center

## The desktop virtualization solution with greater flexibility to expand your business opportunities
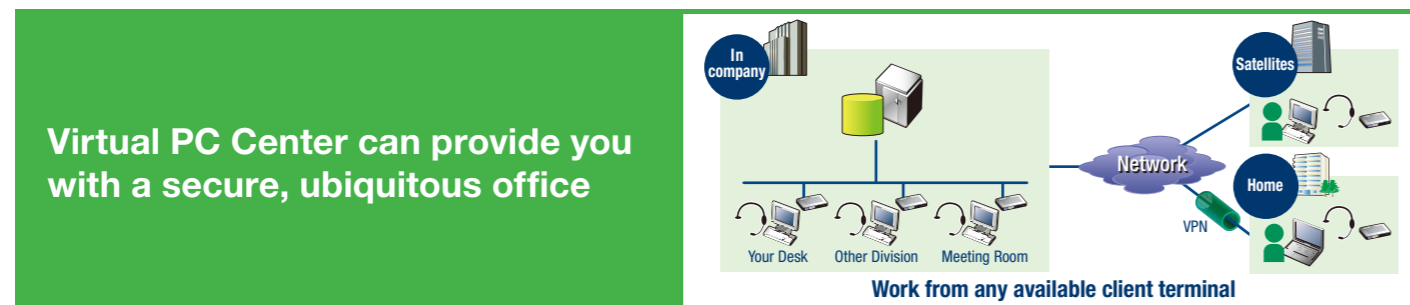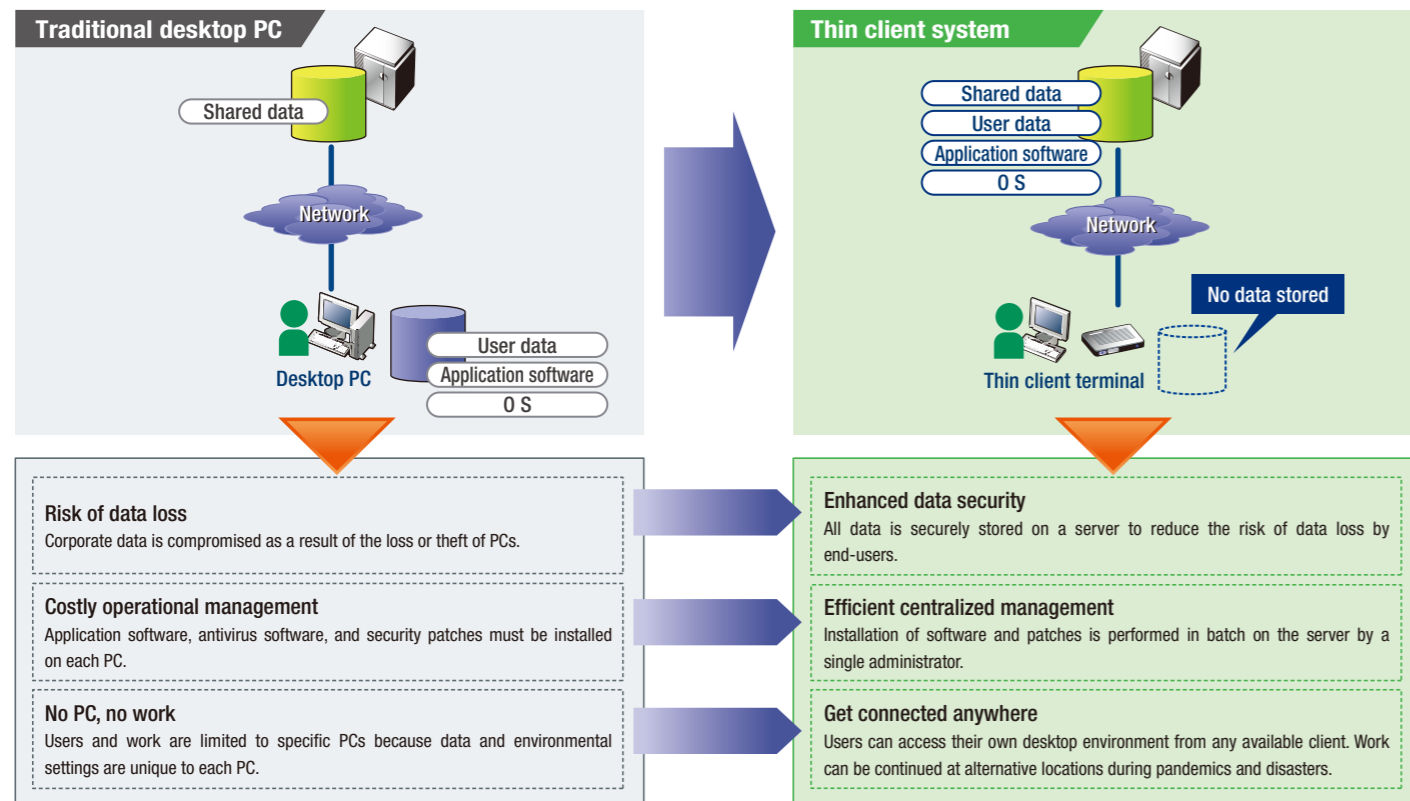


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**NEC Virtual PC Center**
**http://www.nec.com/vpcc/**

**For further information, please contact:**

Cat.No. E05-10040009E

**NEC Corporation**
http://www.nec.com/vpcc/

# Experience the optimal end-user environment with NEC's thin client system

**While delivering the full user-experience of traditional PCs, performance is enhanced through automated reallocation of resources to fully loaded virtual PCs. Virtual PC Center adds ease and flexibility to your work style.**

The Virtual PC Center thin client system dedicates a virtual PC to each user, complete with their current desktop applications and settings. Virtual PCs reside on servers while thin clients have no storage and simply provide the user-interface. This allows users to securely access their working environment from any available terminal whenever, wherever needed—whether while traveling on business or at home.

**Virtual PC Center is an innovative desktop virtualization solution featuring rich multimedia capabilities including smooth video graphics and advanced Voice over IP. The enhanced thin client system allows for full-scale migration of traditional desktop environments and flexibility to meet your business needs.**

Thin client solutions are growing in popularity worldwide because they provide robust security, reduced TCO, and improved mobile computing. However many thin client architectures lack the required functionality and performance and are unable to use IP softphones which limits their practicality in fast-paced working environments. Today, with its expertise in IT and networking, NEC proudly presents a new user-friendly thin client system—Virtual PC Center (VPCC). High-quality text-, video-, sound-processing are made possible by using the most advanced semiconductor technology. VPCC offers cloud computing to flexibly expand your business opportunities.

## Virtual PC Center system



### Effective use of server resources

Resources are allocated according to each user's performance requirements, enabling users to complete projects seamlessly.

If the server load increases, virtual PCs are automatically moved to a server with more free resources to optimize loads among servers.

## Thin client system: the optimal desktop virtualization solution

**Traditional desktop PC**

**Thin client system**



**Risk of data loss**
Corporate data is compromised as a result of the loss or theft of PCs.

**Costly operational management**
Application software, antivirus software, and security patches must be installed on each PC.

**No PC, no work**
Users and work are limited to specific PCs because data and environmental settings are unique to each PC.

**Enhanced data security**
All data is securely stored on a server to reduce the risk of data loss by end-users.

**Efficient centralized management**
Installation of software and patches is performed in batch on the server by a single administrator.

**Get connected anywhere**
Users can access their own desktop environment from any available client. Work can be continued at alternative locations during pandemics and disasters.

## Virtual PC Center can provide you with a secure, ubiquitous office



**Work from any available client terminal**

## Smooth image processing

With Virtual PC Center, users can enjoy high-speed video playback and streaming contents which are indispensable in broadband environments. NEC's multimedia LSI processes images on the thin client which results in smooth video playback.



## High-quality, real-time communication with IP softphones

By processing voice and images on the thin client, VPCC delivers stable communications even when the virtual PC on the server is under heavy load. Users can be called directly from any terminal in the network by using an ID number.



## Enhanced business continuity—Access your office working environment anytime, anywhere

Access to in-house servers from home or outside locations is delivered via VPN. This allows users to call up their own secure PC environment and work from any terminal. Secure telecommuting from home or satellite offices enables business to continue in temporary "office" environments, even in the event of office disasters.



## Simplified, efficient use and management

Users are automatically identified and connected to the optimal virtual PC by way of a login ID and terminal information. OS patches and application software updates are also automatically distributed to all virtual PCs. Furthermore, the addition of new virtual PCs is easy and efficient.