pano
LOGIC

Purpose-built for
Virtualization

END DESKTOP COMPUTING COMPLEXITY

Pano Logic delivers the true benefits of virtualization to Windows users, freeing your IT staff from the escalating complexity and overhead of provisioning , securing, and supporting desktops.

Centralizing all processing and management off the user's desk and into the data center, the Pano System cuts hours from the time needed to deploy or troubleshoot desktops, while optimizing hardware utilization and tightening data security.

It includes everything you need in one package, all purpose-built for virtual desktops, getting you started quickly and painlessly.

80% REDUCTION IN TCO

- Saves as much as $1,500 per desktop annually
- Installs and deploys in just hours, provisions new users in minutes
- Ends security breaches and data losses from infected or stolen endpoints
- Requires only Windows XP or 7 and uses native drivers for peripherals
- Boosts IT productivity, frees staff to pursue strategic initiatives
- Reduces user downtime, rapidly recovers from malware and OS corruptions
- Leverages hardware investments and upgrades across all users
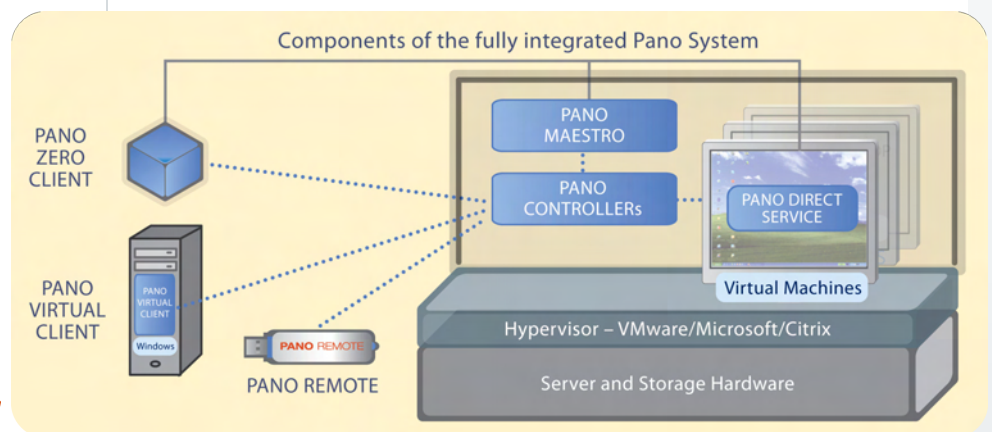- Cuts electricity and cooling costs to as little as 5% of PCs

TOMORROW'S DESKTOP TODAY

Leveraging innovations originally developed for server virtualization, the Pano System delivers a wide range of benefits to IT staff, boosting their productivity while ensuring that users have access to a secure, robust computing environment from any location.

Rather than repurposing thin client hardware originally designed for last generation architectures like terminal services, we invented a completely new architecture purpose-built for virtual desktops—the Zero Client.

And we've built our solution on the VMware, Microsoft or Citrix industry-standard virtualization platforms, proven in thousands of mission-critical deployments, to deliver the performance and reliability you need.

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Components of the fully integrated Pano System

PANO ZERO CLIENT

PANO VIRTUAL CLIENT — PANO VIRTUAL CLIENT — Windows

PANO REMOTE

PANO MAESTRO

PANO CONTROLLERs

PANO DIRECT SERVICE

Virtual Machines

Hypervisor – VMware/Microsoft/Citrix

Server and Storage Hardware

COMPLETE SOLUTION

The Pano System includes everything you need to deploy virtual desktops—the unique Pano Zero Client hardware, Pano Virtual Client software, Pano Maestro and Pano Controller appliances to centrally manage and provision virtual desktops, and comprehensive technical support.

With Pano Logic, you only need one product to get up and running quickly on top of your VMware vSphere/View, Microsoft Hyper-V or Citrix XenDesktop virtualization platform.

PANO ZERO CLIENT

The Pano is a true zero client—it has no CPU or memory, no client operating system or firmware, no local drivers or other software, no local storage or moving parts. It simply and securely connects the attached keyboard, mouse, display, audio and USB peripherals over a LAN.

Weighing just over 1 pound and 3.5 inches square, the Pano Zero Client was engineered to be a no compromises virtual desktop endpoint.

PANO VIRTUAL CLIENT

Pano Virtual Client lets you repurpose your end-of-life Windows XP or 7 PCs as Pano System endpoints. User sessions can freely roam between Zero Clients, Virtual Clients and Pano Remote WAN connections.

PANO CONTROLLER

Pano Controller provides a comprehensive web-based management console used to connect, provision, monitor and control your Pano Zero Clients and desktop virtual machines.

Pano Controller integrates with platform management tools like VMware vCenter, CItrix XenDesktop, and Microsoft System Center Virtual Machine Manager to extend your provisioning and management capabilities.

PANO MAESTRO

Pano Maestro provides a unified monitoring and management lets you create and manage groups of Pano Controllers across one site or many. It provides cross-platform control of tens of thousands of Pano Zero Clients and virtual desktops.

PANO DIRECT SERVICE

Pano Direct Service provides the backbone of communications between Pano Zero and Virtual Clients and desktop virtual machines. Installed as a lightweight Windows service it extends the desktop virtual machine's system bus across your LAN to the Pano System endpoints.

Pano Direct Service requires just Windows XP or 7 and uses the same native drivers supplied by your peripheral's vendor — making migrating off PCs and deploying new users or peripherals simple.

PANO REMOTE

Pano Remote, an optional product delivered on a secure and convenient USB key, provides Pano zero client users with remote access to their virtual desktops from any networked Windows PC. Using the bundled Pano Gateway plug-in, it ensures secure communications over WANs like the Internet without requiring costly VPN software or hardware.

PANO ZERO CLIENT TECHNICAL SPECIFICATIONS

I/O Peripherals: Four USB 2.0 ports

Video Display: One DVI-I port, second DVI-D monitor via optional Dual Monitor Cable.
Includes one DVI to VGA converter.

Networking: 10/100 Base-T Fast Ethernet twisted pair (RJ-45)

Analog Audio Output/Input: Internal speaker; 3.5mm TRRS combo iPhone-compatible in/out mini jack

Physical Characteristics: Height: 2.00" / 51.0mm, Width: 3.50" / 88.8mm, Depth: 3.50" / 88.8mm

Power Supply: Worldwide auto-sensing 100-240 VAC, 50/60 Hz, 5VDC, 3.0 Amps maximum

Power Usage: 6 watts with USB keyboard, mouse and one display connected, <0.2 watts in sleep mode

Temperature Range: 50º to 104º F (10º to 40º C)

Humidity: 20% to 80% non-condensing

Weight: 1.1 lbs / 500 grams (per Pano Zero Client)

Regulatory Compliance: RF Interference: FCC Class A, CE, RoHS Compliant

REQUIRED VIRTUAL INFRASTRUCTURE: (one of the following)

- VMware:
  - vSphere 4.1, 5.0, 5.0 U1; or VMware View 4.6, 5.0, 5.0.1; VMware vSphere 4/5 Essentials
  - vCenter Server 4.1 U1 or 5.0 including Appliance (optional but strongly recommended)
- Microsoft Hyper-V:
  - Windows Server 2008 R2 with Hyper-V or Hyper-V Server 2008 R2
  - System Center Virtual Machine Manager (required)
- Citrix XenDesktop:
  - XenDesktop 5.5 and 5.6
  - XenServer (included with XenDesktop), VMware vSphere ESX 4.1 or 5.0, Microsoft Hyper-V
  - NetScaler MPX 9.2 hardware appliance or VPX 9.2 virtual appliance (optional)

OPTIONAL ALTERNATE CONNECTION BROKERS: VMware View 4.5-5.0, XenDesktop 4/5 Controller

DIRECTORY SERVICES: Microsoft Active Directory, Novell eDirectory, OpenLDAP

DVM OPERATING SYSTEM: 32-bit Microsoft Windows XP Professional (SP2 or SP3), 32- and 64-bit Windows 7 Professional, Enterprise or Ultimate Editions

PANO REMOTE HOST OPERATING SYSTEMS: Microsoft Windows XP SP3, Vista SP2, or 7 with RDP 6.1 or later

For more information visit www.panologic.com or call 650-454-8940
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