



Thin Client

Streamline data security with lean, cloud-connected devices



Thin Client

It's no secret that the way we do business and exchange information is evolving rapidly. At a time when data hacks and security breaches make organizations and individuals more vulnerable than ever, perhaps the most significant evolution is happening around Thin Client technology.

You may not be familiar with the term, but chances are, you've used a Thin Client before. If you haven't, in the very near future, you likely will be. And for good reason.

A More Secure Solution

Consider that in 2017, hackers breached the data of a financial corporation that had "access to the data of more than 820 million consumers worldwide, along with data for 91 million businesses."¹ And that was just one breach.

But the old model of computing that makes it so easy for data to be compromised—with a local hard drive packed with memory—has begun to give way to virtual desktops that can only access data from a centralized server, akin to cloud computing. That's the thinking behind Thin Client.



The Thin/Zero Client market is forecast to grow from \$636M in 2017 to \$1,564M in 2020.²



How Thin Client Works

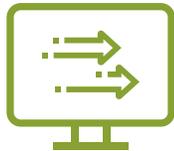
Thin Client is a network-connected computing device that interfaces with the cloud, with limited storage and applications. Unlike a typical personal computer or “fat client,” Thin Client provides access to information without the system-draining memory, storage and power consumption.

Thin Client runs much lighter and leaner, with data residing safely on secure network servers, not at the individual endpoints or devices. This allows individuals to view the information they need, while IT maintains jurisdiction over sensitive information—helping to significantly reduce the risk of data breaches and giving organizations greater control over data ownership, along with decreased hardware and maintenance costs.

It also means that the data stays secure, even if the machine or device used to access the data goes missing.

Evolving Hardware Trends

Speaking of hardware ... Thin Client didn't used to be so, well, thin. In fact, some models were downright clunky. But today's designs are stylish and sleek, with modern, space-saving features that lighten the load, reduce costs and power productivity—all while enhancing data security.



High-performance workstations

- Dual-monitors
- Curved monitors
- Widescreen monitors
- Multi-tasking monitors
- Fast processing speeds
- 4K displays



Connected displays

- Built-in cameras and video conferencing
- Wireless and Bluetooth capabilities
- Wired networking (Giga LAN)
- Seamless connections through multiple ports, including HDMI, Display, USB-C, DVI



Workspace optimization

- Compact, portable designs
- Eliminates cables, wires and hardware
- Durable, long-lasting hardware—
2-3 times longer than standard desktops



Enhanced ergonomics

- Curved and stretched screens eliminate eye fatigue
- Ergonomic stands that tilt, pivot, swivel and adjust for height
- Fan-less designs reduce noise and save on energy costs

The move from traditional desktops and personal computers to Thin Client's lighter profile—with its powerful computing and proven data security capabilities—is catching on, with more companies in more industries realizing the benefits of Thin Client every day. Thin Client has the physical and virtual features organizations and their employees demand. Not to mention, the ROI. Compared to a conventional PC system, switching to a cloud environment can reduce Total Cost of Ownership (TCO) by 51%.

Why Less is More

Keeps data secure in one central location. With data being stored in the network or cloud, individuals no longer need to download it to their local devices. This means fewer people actively managing that data, significantly reducing the risk of compromise or attack from viruses or malware on highly sensitive or confidential information. Employees can access the information they need, when they need it, from anywhere—securely.

Enhances efficiencies and reduces costs. Because cloud platforms don't require vast local infrastructure or support, Thin Client saves money and time spent on hardware repair and maintenance. It also reduces the need for installation, training, migration and downtime, and eliminates the need for routine data backups, and installing patches and updates to stay ahead of viruses.

Lowers carbon footprint and capital expenditures. The average product life cycle (PLC) for a conventional PC is four years. The PLC for a Thin Client is nearly double that at seven years. And Thin Clients run substantially cooler than conventional PCs—using up to 73% less power.³ The result? Reduced operational costs and environmental impact.



“Many data breaches were caused as a result of employees leaving unencrypted laptops in risky locations—in unattended vehicles for instance. By getting the basics right and investing in new technologies, it will be possible for the year-on-year rise in data breaches to be stopped.”⁴

Thin, in Every Industry

Protect highly sensitive healthcare data

In healthcare, confidentiality and data security is paramount. Thin Client makes an ideal partner for clinical workflow, delivering sensitive encrypted data securely and allowing quick, virtual access to patient information. It also provides built-in firewall and smart-care authentication while adhering to regulatory compliance and privacy requirements.

The smart solution for education

In a place where budget is top of mind, Thin Client offers reliability at lower cost. Smaller and cheaper to run than a typical desktop, Thin Client has flexible functionality and a longer life cycle. It's plug-and-play, so advanced technical expertise isn't required. And its smart classroom with central data storage allows access from multiple locations and makes sharing information easy.

Intuitive solutions for hospitality

The hospitality industry can use Thin Client solutions to manage bookings, verify accounts and much more, allowing administration and front office staff to sync information while it stays on a server. Thin Client's centralized data storage allows information to be simultaneously updated and available across all customer touchpoints.

Safety plus accessibility for finance

Protecting financial information is increasingly difficult in a networked world with sophisticated threats. Thin Client lets financial institutions seamlessly sync data on a global scale without compromising branch operations. Data is stored securely in a centralized location, maintaining employee access and productivity while reducing the risk of theft, viruses and malware.

Highly secure for government

Government agencies need to have confidence that the technology they use to exchange sensitive information maintains the integrity of that data and complies with strict regulations. Thin Client seamlessly shares data in a smart, secure, compliant way—all with a longer product life cycle and minimal management.

Thin Client technology is still evolving. As its capabilities develop, who knows what additional potential it holds for ensuring data security and ownership, and empowering the productive and collaborative exchange of information? The possibilities are limitless.

¹Timberg, C. (2017, September 8). Data of 143 million Americans – nearly half the country – exposed in Equifax hack. *The Washington Post*. Retrieved from <http://www.chicagotribune.com>

²Gartner, Juniper Research, *Global Industry Analysts*

³The Green Benefits of Thin Client Computing. (2016, August 30). Retrieved from <https://www.isc.upenn.edu/how-to/green-benefits-thin-client-computing>

⁴HIPAA Journal. (2018). *Largest Healthcare Data Breaches of 2017*. HIPAA Journal. Retrieved from <https://www.hipaajournal.com/largest-healthcare-data-breaches-2017/>

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