Make flexibility the cornerstone of your company's future.

Digital Workspaces Powered by HP Anyware

Solution Brief: Architecture, Engineering, and Construction

Elevate architecture, engineering, and construction workflows with HP Anyware.

New productivity-enhancing technologies like HP Anyware give AEC firms an advantage when working with design concepts, simulations, and project data, helping them to power through tight deadlines and stay competitive regardless of when or where people are working.

The modern architecture, engineering, and construction (AEC) workplace is hybrid—at least for the foreseeable future. But despite the newfound mobility hybrid work brings, the latency and performance issues it can lead to risk leaving AEC professionals unsatisfied and could stall progress on important projects.

Remote display solutions have become an essential part of the digital workspace for users who require a high level of graphics performance. An additional benefit is that these solutions let people work from any endpoint device they choose—desktop, laptop, Chromebook, or tablet—which provides access to remotely hosted applications on in-office workstations.

The portability and accessibility of consumer equipment like laptops are unbeatable from an end-user perspective, and because centrally run software applications prevent data from ever leaving the corporate data center, IT teams can rest assured knowing that client confidentiality is maintained.

When workers interact with centralized content, the risk of out-of-step change orders on disconnected endpoints is drastically reduced. This improves collaboration, spurring rapid design progression.

What to Look For in a Digital Workspace Solution

To collaborate effectively in a hybrid work environment, real-time, responsive, visual interactivity should mimic the experience of working in-person on a modern office workstation.

When evaluating digital workspace solutions, you should look for technologies that deliver lossless reproduction of text, wire frames, textures, and intricate graphics—regardless of network conditions, as home internet connections tend to be inconsistent.

HP Anyware can deliver accessible, remote access to a wide array of BIM modeling, CAD, and 3D applications as well as photorealistic rendering, visualization, and simulated flythroughs.

HP Anyware's exclusive PC-over-IP (PCoIP) protocol helps secure and support projects at every phase—from design conceptualization to development, construction, and closeout.

Take your AEC company to the next level with HP Anyware.

Here are a few of the benefits HP Anyware can bring to your hybrid AEC teams:

It unifies creative collaborators and makes the impossible, possible.

Latency, time zones, and mix-and-match devices and operating systems threaten to derail projects and add unnecessary strain on IT. With HP Anyware, teams, contractors, and specialists can seamlessly collaborate on content in the office, at home, on-site, or at a client meeting, guaranteeing tight coordination of activities across all phases of a complex project.

When it comes to deployment, IT teams can "set it and forget it".

It's simple to deploy HP Anyware on virtually any combination of infrastructure, host environment, endpoint device, and operating system via a quick installation process. Other benefits for IT include an easy-to-use interface for brokering, provisioning, and central management as well as no need to preconfigure for specific use cases.

It overcomes connectivity issues, giving power users a power boost.

PCoIP® remote display technology dynamically adapts to LAN or WAN network conditions in real time, making AutoCAD, Revit, MicroStation, and BIM seamless to use. Users retain 4K image quality and full-frame-rate 3D graphics across multiple displays, while USB peripherals that are critical to AEC, like 3D connexion SpaceMouse or Wacom tablets and pen displays, integrate effortlessly over high-latency networks.

It charges only for active connections—and restores control over cloud creep.

HP Anyware enables cost-effective hybrid deployments, bridging on-premises and public cloud workstations, providing user entitlements, brokering secured connections between users and desktops, and offering multifactor authentication. With Anyware Manager Enterprise, cloud computing costs are kept in check by powering resources up and down as needed, so you'll never pay for connections that aren't in use.

Hackers don't stand a chance against the power of the pixel.

HP Anyware sends only encrypted pixels, meaning that no data ever leaves your company's corporate data center or secured public cloud data store. This eliminates the need for a VPN and improves the performance of data-intensive AEC software, protecting companies' valuable assets, intellectual property, and design schematics without compromising speed or performance.

It's so lightweight, most people forget they're using it at all.

HP Anyware provides near-lossless performance while using applications from companies like Autodesk, Bentley, Nemetschek, and Trimble—or any other favorite software tool—without altering performance. Users can access building and infrastructure design, construction, and CAD/CAM/CAE software with workstation computing power or leverage the vast capabilities of the public cloud.

About Our Technology

PCoIP® remote display technology delivers a high-definition and incredibly responsive computing experience through the most challenging network conditions:

- PCoIP® technology was invented in 2004, and although it has been imitated, PCoIP® remote display technology remains unrivaled.
- PCoIP® encodes, compresses, encrypts, and transports image pixels from a central server or workstation.
- It then decrypts and decompresses the image for users to interact with on virtually any endpoint.
- No business information ever leaves your secured cloud, data center, or workstation.

CLK Architects

Architecture firm specializing in healthcare, higher education, K-12, and municipalities

Challenges

Employees working from home experienced poor performance from their existing remote access solution, particularly when working with 3D applications like AutoCAD and Revit. Their existing solution also lacked support for multiple displays.

Approach

- PCoIP® remote display protocol

Business Outcomes

Designers at the firm can connect 1:1 to their in-office workstations from home and enjoy the same application experience they have in the office—including clean lines, fluid motion, and multi-monitor support. HP Anyware's remote display technology adds a layer of security, protecting CLK Architects' clients from data exposure as employees move between home and office.
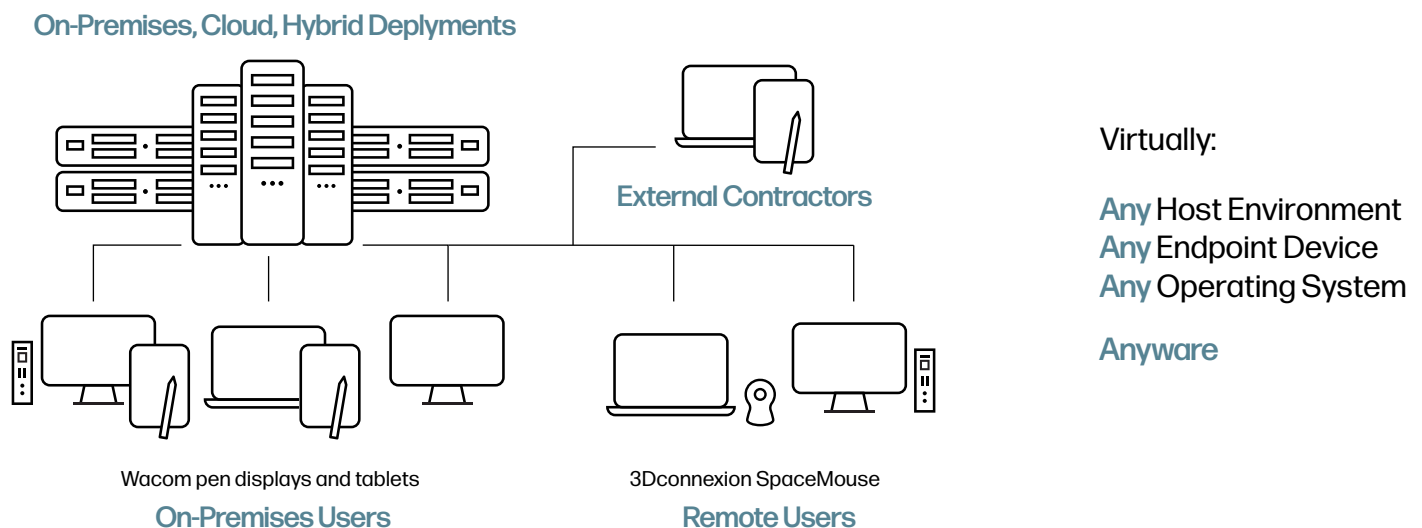
How PCoIP Remote Display Technology Works

Not every remote display technology can be the boss.

If you've ever accessed a digital workspace, you've likely encountered the PCoIP protocol. HP Anyware creates a distortion-free, color-accurate experience; and expanded multi-codec; and dynamic network adaption that sets it apart from its competitors.

PCoIP® uses advanced display compression to allow users to remotely access on-premises workstations or virtual machine instances in local data centers or public clouds from a range of devices. While other technologies burden network and compute resources, PCoIP® remote display technology offers a working experience that's nearly indistinguishable from being in the office, whether you're 10 or 1,000 miles away.

PCoIP® remote display technology sends only encrypted pixels to an end user's device, keeping all data within the confines of the corporate network, cloud, or data center. Internet traffic is secured with AES-256 encryption, which meets the highest level of security standards required by governments.

On-Premises, Cloud, Hybrid Deplyments

External Contractors

Wacom pen displays and tablets
On-Premises Users

3Dconnexion SpaceMouse
Remote Users

Virtually:

Any Host Environment
Any Endpoint Device
Any Operating System

Anyware

Learn more at: hp.com/anyware