

Listicle

4 Considerations for Accelerating AEC Workflows



How AEC professionals can work better together in hybrid environments

The architecture, engineering, and construction (AEC) industry has typically utilized high-powered on-premise workstations for designing, planning, and developing building projects. However, over the past few years, many firms have begun adapting to hybrid environments. Being an extremely collaborative field, projects often involve multiple parties collaborating from various locations. Additionally, due to the high-profile nature of the clients, IT teams must have stringent security measures in place to protect intellectual property (IP) without impacting performance.

With the unique needs of AEC firms in mind, we'll explain how to use digital workspaces to optimize hybrid workflows and offer teams increased flexibility.

- 1 Centralizing data empowers hybrid employees
- 2 Enabling employee collaboration in hybrid environments
- 3 Understanding the key needs of engineers, designers, and creators
- 4 Managing evolving security requirements

1. Centralizing data empowers hybrid employees

- With teams being dispersed around the globe, sharing and collaborating on projects can be a challenge.
- AEC files, such as models, datasets, digital twins, and LiDAR scans are very large, requiring time to upload to shared workspaces or to share over VPNs. Saving files and projects on local systems can lead to issues with file version control, or even data loss.
- To improve workflows, IT teams can keep all projects and data centralized in the data center or a digital workspace so employees can access files from anywhere.

2. Enabling employee collaboration in hybrid environments

- Considering the hybrid nature of the industry as it is today, team members and clients are looking for the closest alternative to over-the-shoulder collaboration, even when they are located elsewhere in the world.
- Real-time collaboration drives creativity and efficiency. However, with dispersed teams located in various time zones, projects often need to be accessed asynchronously, with different team members completing sections of the project during their work hours.
- Accessing the digital workspace through software that enables collaboration will help dispersed teams and clients work together no matter where they are located.



59%
of people surveyed said performance or user experience was a challenge in hybrid work¹.



3. Understanding the key needs of engineers, designers, and creators

- AEC firms utilize graphics-intensive 2D/3D applications and software such as AutoCAD, Revit, and Enscape to create models of buildings and structures and photorealistic renderings for client reviews. These applications require powerful GPU equipped computing systems.
- To be productive, professionals require the applications they use to have high fidelity, including crisp lines and text, accurate colors, and responsiveness equivalent to an on-premises device no matter where they are working from.
- AEC teams can utilize digital workspaces to leverage high GPU performance, which also offers seamless use of peripherals, such as Wacom tablets and pens, 3Dconnexion SpaceMouse, and multiple monitors.

4. Managing evolving security requirements

- Hundreds of temporary workers often work on AEC projects. Many of them access different projects and sensitive data on the same endpoint, which could lead to serious security risks.
- IT teams are charged with maintaining high-security protocols for the personal devices that AEC professionals and temporary workers use to work remotely, all while keeping the cost of IT infrastructure down.
- AEC firms can increase their data security by working from digital workspaces, instead of saving sensitive files to local and potentially vulnerable systems.

Benefits of digital workspaces for AEC use cases

A digital workspace is an integrated technology framework that is secure and accessible from anywhere. It includes centralized company assets, applications, data, and desktops and can be hosted on-premises or in the cloud.

Digital workspaces powered by HP Anyware deliver:



Performance

HP Anyware provides crisp graphics, high resolution, color fidelity, and responsiveness of workstations to create and work from anywhere.



Productivity

HP Anyware includes seamless integration for specialty peripherals, such as Wacom devices and 3D Connexion SpaceMouse, and 4K multiple monitor support.



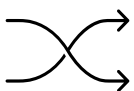
Security

HP Anyware is an enterprise software that only transmits encrypted pixels to the user, ensuring sensitive data remains safe in the digital workspace.



Collaboration

HP Anyware enables remote teams (internal and external) to share a real-time collaborative session.



Flexibility

HP Anyware offers flexible deployment options on-premises and on the cloud, and is compatible with numerous endpoints.





With HP Anyware, AEC firms can enjoy responsive applications that provide a positive user experience, as well as over-the-shoulder collaboration even in hybrid environments. Users can maintain data security and be allowed greater working flexibility while improving their team's project productivity.

Learn more about HP Anyware for AEC use cases

Learn



References:

1. HYBRID WORK REPORT: The Strategic Role of Digital Workspaces. 2022

HP Anyware software and licensing are available through a 1- or 3-year subscription. Renewal is required after the subscription term. HP Anyware subscriptions are based on the number of concurrent PCoIP connections used (pay for the number of host connections, not the software) with a minimum order quantity of 5. For a limited time, an HP Anyware Professional subscription also includes access and support for ZCentral-Remote Boost and ZCentralConnect and is available for purchase through an HP reseller or contact sales at hp.com/Anyware. ZCentralRemote Boost Sender requires Windows 10 and 11, RHEL/CentOS (7 or 8), or UBUNTU 18.04 or 20.04 LTS operating systems. macOS (10.14 or newer) operating system and ThinPro 7.2 are only supported on the receiver side. ZCentralConnect requires Windows (10 or 11) or Windows Server (2016 or 2019) operating system, Microsoft Active Directory and Intel Active Management Technology for select features. For system requirements and to install HP Anyware and Anyware Manager, refer to the Admin Guides at: <https://docs.teradici.com/find/product/hp-anyware>.

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